Index of Authors and Titles

Abrams, J. M., White, K., Fessler, L. I. and Steller, H.
Programmed cell death during *Drosophila* embryogenesis 117, 29

Adams, J. C. and Watt, F. M. Regulation of development and differentiation by the extracellular matrix 117, 1183

Adler P. N. See Martin, E. C.

Affolter, M., Walldorf, U., Kloter, U., Schier, A. F. and Gehring, W. J. Regional repression of a *Drosophila* POU box gene in the endoderm involves inductive interactions between germ layers 117, 1199

Akam, M. See Kelsh, R.

Akhurst, R. J. See Dickson, M. C.

Albano, R. M., Groome, N. and Smith, J. C. Activins are expressed in preimplantation mouse embryos and in ES and EC cells and are regulated on their differentiation 117, 711

Altruda, F. See Tarone, G.

 Anderson, R., Landry, M. and Muneoka, K. Maintenance of ZPA signaling in cultured mouse limb bud cells 117, 1421
 Arenas, E. See Ibanez, C. F.

Babinet, C. See Li, Z.

Bally-Cuif, L., Goridis, C. and Santoni, M.-J. The mouse NCAM gene displays a biphasic expression pattern during neural tube development 117, 543

Barsh, G. S. See Frohman, M. A. Bartlett, P. F. See Murphy, M. Beddington, R. S. P. See Wilson, V.

Beebe, D. C. See Hyatt, G. A.

Beeman, R. W. See Stuart, J. J.

Behringer, R. R., Crotty, D. A., Tennyson, V. M., Brinster, R. L., Palmiter, R. D. and Wolgemuth, D. J. Sequences 5' of the homeobox of the *Hox-1.4* gene direct tissue-specific expression of *lacZ* during mouse development 117, 823

Besse, C. See Cognard, C.

Blochlinger, K., Jan, L. Y. and Jan, Y. N. Postembryonic patterns of expression of cut, a locus regulating sensory organ identity in *Drosophila* 117, 441

Block, N. E. See Smith, T. H. Blum, M. See De Robertis, E. M.

Blum, M. See Gaunt, S. J.

Bode, H. R. See Shenk, M. A.

Bonaldo, P. See Quarto, R.

Bonhoeffer, F. See Wizenmann, A.

Botas, J. See Irvine, K. D.

Bownes, M. See Giorgi, F.

Bowtell, D. D. L. See Della, N. G.

Boxberg, Y. v. See Wizenmann, A.

Breen, T. R. and Harte, P. J. trithorax regulates multiple homeotic genes in the bithorax and Antennapedia complexes and exerts different tissue-specific, parasegment-specific and promoter-specific effects on each 117, 119

Brennan, L. See Govind, S.

Bringas, P. Jr. See Diekwisch, T.

Brinster, R. L. See Behringer, R. R.

Brockes, J. P. See Hill, D. S.

Brook, W. J., Ostafichuk, L. M., Piorecky, J., Wilkinson, M. D., Hodgetts, D. J. and Russell, M. A. Gene expression during imaginal disc regeneration detected using enhancer-sensitive Pelements 117, 1287

Brown, J. J. G. and Papaioannou, V. E. Ontogeny of hyaluronan secretion during early mouse development 117, 483

Brown, J. L. and Wu, C. Repression of *Drosophila* pair-rule segmentation genes by ectopic expression of *tramtrack* 117, 45 Brown, M. A. See Murphy, M.

Brown, S. J. See Stuart, J. J.

Buckingham, M. See Ontell, M.

Buehr, M., Gu, S. and McLaren, A. Mesonephric contribution to testis differentiation in the fetal mouse 117, 273

Buhr, R. J. See Coutinho, L. L.

Buratynski, T. J. See Ewulonu, U. K.

Burgoyne, P. S. A Y-chromosomal effect on blastocyst cell number in mice 117, 341

Buttner, G. See Mayer, U.

Cado, D. See Logan, C.

Cancedda, R. See Ouarto, R.

Capecchi, M. R. See Mansour, S. L.

Carré, D. See Houliston, E.

Carroll, S. B. See Langeland, J. A.

Carroll, S. B. See Williams, J. A.

Carsience, R. S., Clark, M. E., Gibbins, A. M. V. and Etches, R. J. Germline chimeric chickens from dispersed donor blastodermal cells and compromised recipient embryos 117, 669

Citi, S. See Javed, Q.

Citi, S. See Fleming, T. P.

Clark, M. E. See Carsience, R. S.

Clegg, N. J. See Stern, B.

Cognard, C., Constantin, B., Rivet-Bastide, M., Imbert, N., Besse, C. and Raymond, G. Appearance and evolution of calcium currents and contraction during the early post-fusional stages of rat skeletal muscle cells developing in primary culture 117. 1153

Cohen, B. See O'Hara, E.

Cohen, B., Simcox, A. A. and Cohen, S. M. Allocation of the thoracic imaginal primordia in the *Drosophila* embryo 117, 597

Cohen, N. See Salzberg, A.

Cohen, S. M. See O'Hara, E.

Cohen, S. M. See Cohen, B. Colombatti, A. See Quarto, R.

Coltey, P. M. See Couly, G. F.

Condic, M. L. See Fessler, L. I.

Constantin, B. See Cognard, C.

Consten, C. See van Straaten, H. W. M.

Copenhaver, P. F. Origins, migration and differentiation of glial cells in the insect enteric nervous system from a discrete set of glial precursors 117, 59

Copp, A. J. See van Straaten, H. W. M.

Cordes, S. P. See Frohman, M. A.

Couly, G. F., Coltey, P. M. and Le Douarin, N. M. The triple origin of the skull in higher vertebrates: a study in quail-chick chimeras 117, 409

Coutinho, L. L., Morris, J., Marks, H. L., Buhr, R. J. and Ivarie, R. Delayed somite formation in a quail line exhibiting myofiber hyperplasia is accompanied by a delayed expression of myogenic regulatory factors and myosin heavy chain 117, 563

Crotty, D. A. See Behringer, R. R.

Curfs, M. H. J. M., Gribnau, A. A. M. and Dederen, P. J. W. C. Postnatal maturation of the dendritic fields of motoneuron pools supplying flexor and extensor muscles of the distal forelimb in the rat 117, 535

David, S. See Diekwisch, T.

Dawson, I. See Kelsh, R.

Dawson, I. A., Roth, S., Akam, M., Artavanis-Tsakonas, S. Mutations of the fizzy locus cause metaphase arrest in Drosophila melanogaster embryos 117, 359

De Robertis, E. M. See Gaunt, S. J.

- De Robertis, E. M., Blum, M., Niehrs, C. and Steinbeisser, H. goosecoid and the organiser 92, 167
- De Sousa, P. A., Valdimarsson, G., Nicholson, B. J. and Kidder, G. M. Connexin trafficking and the control of gap junction assembly in mouse preimplantation embryos 117, 1355
- Dederen, P. J. W. C. See Curfs, M. H. J. M.
- Della, N. G., Senior, P. V. and Bowtell, D. D. L. Isolation and characterisation of murine homologues of the *Drosophila seven* in absentia gene (sina) 117, 1333
- Dencker, L. See Gustafson, A.-L.
- Denell, R. E. See Stuart, J. J.
- Desai, C. See Garriga, G.
- DeSimone, D. W. See Whittaker, C. A.
- Dickson, M. C., Slager, H. G., Duffie, E., Mummery, C. L. and Akhurst, R. J. RNA and protein localisations of TGFβ2 in the early mouse embryo suggest an involvement in cardiac development 117, 625
- Diekwisch, T., David, S., Bringas, P. Jr., Santos, V. and Slavkin, H. C. Antisense inhibition of AMEL translation demonstrates supramolecular controls for enamel HAP crystal growth during embryonic mouse molar development 117, 471
- Dodd, J. See Placzek, M.
 Doniach, T. Induction of anteroposterior
- **Doniach, T.** Induction of anteroposterior neural pattern in *Xenopus* by planar signals **92**, 183
- Dozin, B. See Quarto, R.
- Duffie, E. See Dickson, M. C.
- Dziadek, M. See Thomas, T.
- Edson, K., Weisshaar, B. and Matus, A. Actin depolymerisation induces process formation on MAP2-transfected non-neuronal cells 117, 689
- Eichele, G. See Kuratani, S. C.
- Emori, Y. See Shishido, E.
- Eriksson, U. See Gustafson, A.-L.
- Ernfors, P. See Ibanez, C. F.
- Etches, R. J. See Carsience, R. S.
- Ettensohn, C. A. and Ruffins, S. W. Mesodermal cell interactions in the sea urchin embryo: properties of skeletogenic secondary mesenchyme cells 117, 1275
- Ewulonu, U. K., Buratynski, T. J. and Schimenti, J. C. Functional and molecular characterization of the transcriptional regulatory region of *Tcp-10b^{-t}*, a testes-expressed gene from the *t complex responder* locus 117, 89
- Fehon, R. G. See Kooh, P. J.
- Feng, L. See Kuhar, S. G.
- Ferguson, M. W. J. See Jowett, A. K.
- Fessler, J. H. See Fessler, L. I.
- Fessler, L. I. See Abrams, J. M.
- Fessler, L. I., Condic, M. L., Nelson, R. E., Fessler, J. H. and Fristrom, J. W. Site-specific cleavage of membrane collagen IV during *Drosophila* metamorphosis 117, 1061
- Fitzgerald, M., Kwiat, G. C., Middleton, J. and Pini, A. Ventral spinal cord inhibition of neurite outgrowth from embryonic rat dorsal root ganglia 117, 1377
- Fleming, T. P. See Javed, Q.
- Fleming, T. P., Hay, M., Javed, Q. and Citi, S. Localisation of tight junction protein cingulin is temporally and spatially regulated during early mouse development 117, 1135
- Forristall, C. See Mosquera, L.
- Frei, E. See Gutjahr, T.
- Friedrich, A. See Grove, E. A.
- Fristrom, D., Wilcox, M. and Fristrom, J. The distribution of PS integrins, laminin A and F-actin during key stages in *Drosophila* wing development 117, 509
- Fristrom, J. See Fristrom, D.
- Fristrom, J. W. See Fessler, L. I.

- Frohman, M. A., Martin, G. R., Cordes, S. P., Halamek, L. P. and Barsh, G. S. Altered rhombomere-specific gene expression and hyoid bone differentiation in the mouse segmentation mutant, *kreisler* (*kr*) 117, 925
- Fujiwara, S. See Kawamura, K.
- Garriga, G., Desai, C. and Horvitz, H. R. Cell interactions control the direction of outgrowth, branching and fasciculation of the HSN axons of *Caenorhabditis elegans* 117, 1071
- Gaunt, S. J., Blum, M. and De Robertis, E. M. Expression of the mouse *goosecoid* gene during mid-embryogenesis may mark mesenchymal cell lineages in the developing head, limbs and body wall 117, 769
- Gehring, W. J. See Affolter, M.
- Gelbart, W. M. See Hursh, D. A.
- Gelbart, W. M. See Wharton, K. A.
- **Ghosh, A. and Shatz, C. J.** A role for subplate neurons in the patterning of connections from thalamus to neocortex 117, 1031
- Giangrande, A., Murray, M. A. and Palka, J. Development and organization of glial cells in the peripheral nervous system of *Drosophila melanogaster* 117, 895
- Gibbins, A. M. V. See Carsience, R. S.
- Giniger, E., Jan, L. Y. and Jan, Y. N. Specifying the path of the intersegmental nerve of the *Drosophila* embryo: a role for *Delta* and *Notch* 117, 431
- Giorgi, F., Lucchesi, P., Morelli, A. and Bownes, M.
 - Ultrastructural analysis of *Drosophila* ovarian follicles differing in yolk polypeptide (yps) composition 117, 319
- **Gleizer, L. and Stent, G. S.** Developmental origin of segmental identity in the leech mesoderm **117**, 177
- Goddard, J. M. See Mansour, S. L.
- Goridis, C. See Bally-Cuif, L.
- Goulding, M. D., Lumsden, A. and Gruss, P. Signals from the notochord and floor plate regulate the region-specific expression of two Pax genes in the developing spinal cord 117, 1001
- Govind, S., Brennan, L. and Steward, R. Homeostatic balance between dorsal and cactus proteins in the *Drosophila* embryo 117, 135
- Gribnau, A. A. M. See Curfs, M. H. J. M.
- Grigliatti, T. A. See Stern, B.
- Groome, N. See Albano, R. M.
- Grove, E. A., Williams, B. P., Li, D.-Q., Hajihosseini, M., Friedrich, A. and Price J. Multiple restricted lineages in the embryonic rat cerebral cortex 117, 553
- Grunwald, D. J. See Stachel, S. E.
- Gruss, P. See Meyer, B. I.
- Gruss, P. See Goulding, M. D.
- Gu, S. See Buehr, M.
- Gustafson, A.-L., Dencker, L. and Eriksson, U. Nonoverlapping expression of CRBP I and CRABP I during pattern formation of limbs and craniofacial structures in the early mouse embryo 117, 451
- Gutjahr, T., Frei, E. and Noll, M. Complex regulation of early paired expression: initial activation by gap genes and pattern modulation by pair-rule genes 117, 609
- Hajihosseini, M. See Grove, E. A.
- Halachmi, N. See Salzberg, A.
- Halamek, L. P. See Frohman, M. A.
- Hanaoka, K. See Sawai, S.
- Hara, K. See Kawamura, K.
- Harte, P. J. See Breen, T. R.
- Hatten, M. E. See Kuhar, S. G.
- Hay, M. See Javed, Q.
- Hay, M. See Fleming, T. P.
- Hayashi, S.-I. See Ogawa, M.

Heintz, N. See Kuhar, S. G.

Heitzler, P. and Simpson, P. Altered Epidermal Growth Factorlike sequences provide evidence for a role of Notch as a receptor in cell fate decisions 117, 1113

Hekking, J. W. M. See van Straaten, H. W. M.

Hidalgo, A. See Ingham, P. W.

Higashijima, S.-i. See Shishido, E.

Hill, D. S., Ragsdale, C. W. Jr. and Brockes, J. P. Isoformspecific immunological detection of newt retinoic acid receptor dl in normal and regenerating limbs 117, 937

Hirsch, E. See Tarone, G.

Hodgetts, D. J. See Brook, W. J.

Hofbauer, A. See Poeck, B.

Hogness, D. S. See Irvine, K. D.

Horvitz, H. R. See Garriga, G.

Houliston, E., Carré, D., Johnston, J. A. and Sardet, C. Axis establishment and microtubule-mediated waves prior to first cleavage in Beroe ovata 117, 75

Humbert, J. See Li, Z.

Hursh, D. A., Padgett, R. W. and Gelbart, W. M. Cross regulation of decapentaplegic and Ultrabithorax transcription in the embryonic visceral mesoderm of Drosophila 117, 1211

Hyatt, G. A. and Beebe, D. C. Regulation of lens cell growth and polarity by an embryo-specific growth factor and by inhibitors of lens cell proliferation and differentiation 117, 701

Ibanez, C. F., Ernfors, P., Timmusk, T., Ip, N. Y., Arenas, E., Yancopoulos, G. D. and Persson, H. Neurotrophin-4 is a target-derived neurotrophic factor for neurons of the trigeminal ganglion 117, 1345

Imbert, N. See Cognard, C.

Ingham, P. W. and Hidalgo, A. Regulation of wingless transcription in the Drosophila embryo 117, 283

Ip, N. Y. See Ibanez, C. F.

Irvine, K. D., Botas, J., Jha, S., Mann, R. S. and Hogness, D. S. Negative autoregulation by Ultrabithorax controls the level and pattern of its expression 117, 387

Ish-Horowicz, D. See Parkhurst, S. M.

Ivarie, R. See Coutinho, L. L.

Jan, L. Y. See Giniger, E.

Jan, L. Y. See Blochlinger, K.

Jan, Y. N. See Giniger, E.

Jan, Y. N. See Blochlinger, K.

Javed, Q. See Fleming, T. P.

Javed, Q., Fleming, T. P., Hay, M. and Citi, S. Tight junction protein cingulin is expressed by maternal and embryonic genomes during early mouse development 117, 1145

Jessell, T. M. See Placzek, M.

Jha, S. See Irvine, K. D.

Johnston, J. A. See Houliston, E.

Johnston, P. See Sampedro, J.

Jones, B. and McGinnis, W. A new Drosophila homeobox gene, bsh, is expressed in a subset of brain cells during embryogenesis 117, 793

Jowett, A. K., Vainio, S., Ferguson, M. W. J., Sharpe, P. T. and Thesleff, I. Epithelial-mesenchymal interactions are required for msx 1 and msx 2 gene expression in the developing murine molar tooth 117, 461

Joyner, A. L. See Logan, C.

Jurgens, G. See Mayer, U.

Kapur, R. P., Yost, C. and Palmiter, R. D. Aggregation chimeras demonstrate that the primary defect responsible for aganglionic megacolon in lethal spotted mice is not neuroblast autonomous 117, 993

Kaufman, T. C. See Matthews, K. A.

Kawamura, K., Hara, K. and Fujiwara, S. Developmental role

of endogenous retinoids in the determination of morphallactic field in budding tunicates 117, 835

Kawana, A. See Nagata, I.

Keller, R. See Lane, M. C.

Keller, R. See Purcell, S. M.

Kelsh, R., Dawson, I. and Akam, M. An analysis of Abdominal-B expression in the locust Schistocerca gregaria 117, 293

Khoo, W. K. See Logan, C.

Kidder, G. M. See De Sousa, P. A.

Kimchie, Z. See Salzberg, A.

Kina, T. See Ogawa, M.

King, M. L. See Mosquera, L.

Kintner, C. See Papalopulu, N.

Kitamura, T. See Kobayashi, S.

Klämbt, C. The Drosophila gene pointed encodes two ETS-like proteins which are involved in the development of the midline glial cells 117, 163

Kloter, U. See Affolter, M.

Kobayashi, S., Kitamura, T., Sasaki, H. and Okada, M. Two types of pole cells are present in the Drosophila embryo, one with and one without splicing activity for the third P-element intron 117, 885

Kodama, H. See Ogawa, M.

Koehl, M. A. R. See Lane, M. C.

Kondoh, H. See Sawai, S.

Konieczny, S. F. See Smith, T. H.

Kooh, P. J., Fehon, R. G. and Muskavitch, M. A. T. Implications of dynamic patterns of Delta and Notch expression for cellular interactions during Drosophila development 117,

Kuhar, S. G., Feng, L., Vidan, S., Ross, M. E., Hatten, M. E. and Heintz, N. Changing patterns of gene expression define four stages of cerebellar granule neuron differentiation 117, 97

Kunisada, T. See Ogawa, M.

Kuratani, S. C. and Eichele, G. Rhombomere transplantation repatterns the segmental organization of cranial nerves and reveals cell-autonomous expression of a homeodomain protein

Kwiat, G. C. See Fitzgerald, M.

Landry, M. See Anderson, R.

Lane, M. C., Koehl, M. A. R., Wilt, F. and Keller, R. A role for regulated secretion of apical extracellular matrix during epithelial invagination in the sea urchin 117, 1049

Langeland, J. A. and Carroll, S. B. Conservation of regulatory elements controlling hairy pair-rule stripe formation 117, 585

Lans, D., Wedeen, C. J. and Weisblat, D. A. Cell lineage analysis of the expression of an engrailed homolog in leech embryos 117, 857

Lawrence, P. A. See Sampedro, J.

Le Douarin, N. M. See Couly, G. F.

Lehner, C. F. See Stern, B.

Lettice, L. A. and Slack, J. M. W. Properties of the dorsalizing signal in gastrulae of Xenopus laevis 117, 263

Lev, Z. See Salzberg, A.

Li, D.-Q. See Grove, E. A.

Li, Z., Marchand, P., Humbert, J., Babinet, C. and Paulin, D. Desmin sequence elements regulating skeletal muscle-specific expression in transgenic mice 117, 947

Lipshitz, H. D. See Parkhurst, S. M.

Logan, C., Khoo, W. K., Cado, D. and Joyner, A. L. Two enhancer regions in the mouse En-2 locus direct expression to the mid/hindbrain region and mandibular myoblasts 117, 905

Lucchesi, P. See Giorgi, F.

Lumsden, A. See Goulding, M. D.

Lyons, G. See Ontell, M.

Mac Auley, A., Werb, Z. and Mirkes, P. E. Characterization of the unusually rapid cell cycles during rat gastrulation 117, 873 Mallonga, R. See Ontell, M.

Mann, R. S. See Irvine, K. D.

Mansour, S. L., Goddard, J. M. and Capecchi, M. R. Mice homozygous for a targeted disruption of the proto-oncogene int-2 have developmental defects in the tail and inner ear 117, 13

Marchand, P. See Li, Z.

Marks, H. L. See Coutinho, L. L.

Martin, E. C. and Adler P. N. The *Polycomb* group gene *Posterior Sex Combs* encodes a chromosomal protein 117, 641

Martin, G. R. See Frohman, M. A.

Matthews, K. A., Rees, D. and Kaufman, T. C. A functionally specialized a-tubulin is required for oocyte meiosis and cleavage mitoses in *Drosophila* 117, 977

Matus, A. See Edson, K.

Mayer, U., Buttner, G. and Jurgens, G. Apical-basal pattern formation in the *Arabidopsis* embryo: studies on the role of the *gnom* gene 117, 149

McGinnis, W. See O'Hara, E. McGinnis, W. See Jones, B.

McLaren, A. See Buehr, M.

Meyer, B. I. and Gruss, P. Mouse *Cdx-1* expression during gastrulation **117**, 191

Middleton, J. See Fitzgerald, M. Miller, J. B. See Smith, T. H.

Mirkes, P. E. See Mac Auley, A.

Moore, R. and Walsh, F. S. The cell adhesion molecule Mcadherin is specifically expressed in developing and regenerating, but not denervated skeletal muscle 117, 1409

Morata, G. See Pelaz, S.

Morelli, A. See Giorgi, F.

Morio, T. See Ozaki, T. Morris, J. See Coutinho, L. L.

Mosquera, L., Forristall, C., Zhou, Y. and King, M. L. A mRNA localized to the vegetal cortex of *Xenopus* oocytes encodes a protein with *nanos*-like zinc finger domain **117**, 377

Mummery, C. L. See Dickson, M. C.

Muneoka, K. See Anderson, R.

Murphy, M., Reid, K., Brown, M. A. and Bartlett, P. F.
Involvement of leukemia inhibitory factor and nerve growth
factor in the development of dorsal root ganglion neurons 117,
1173

Murray, M. A. See Giangrande, A. Muskavitch, M. A. T. See Kooh, P. J.

Myers, P. Z. See Stachel, S. E.

Nagata, I., Kawana, A. and Nakatsuji, N. Perpendicular contact guidance of CNS neuroblasts on artificial microstructures 117, 401

Nakao, H. See Ozaki, T.

Nakao, J. See Ogawa, M.

Nakatsuji, N. See Nagata, I.

Nelson, R. E. See Fessler, L. I.

Nicholson, B. J. See De Sousa, P. A.

Niehrs, C. See De Robertis, E. M.

Nishikawa, S. See Ogawa, M.

Nishikawa, S.-I. See Ogawa, M.

Noll, M. See Gutjahr, T.

O'Hara, E., Cohen, B., Cohen, S. M. and McGinnis, W. Distalless is a downstream gene of *Deformed* required for ventral maxillary identity 117, 847

Odorisio, T. See Tarone, G.

Ogawa, M., Nishikawa, S., Yoshinaga, K., Hayashi, S.-I., Kunisada, T., Nakao, J., Kina, T., Sudo, T., Kodama, H. and Nishikawa, S.-I. Expression and function of c-Kit in fetal hemopoietic progenitor cells: transition from the early c-Kitindependent to the late c-Kit-dependent wave of hemopoiesis in the murine embryo 117, 1089

Okada, M. See Kobayashi, S.

Ontell, M. P. See Ontell, M.

Ontell, M., Ontell, M. P., Sopper, M. M., Mallonga, R., Lyons, G. and Buckingham, M. Contractile protein gene expression in primary myotubes of embryonic mouse hindlimb muscles 117, 1435

Orii, H. See Ozaki, T.

Ostafichuk, L. M. See Brook, W. J.

Ozaki, T., Nakao, H., Orii, H., Morio, T., Takeuchi, I. and Tasaka, M. Developmental regulation of transcription of a novel prespore-specific gene (Dp87) in *Dictyostelium discoideum* 117, 1299

Packard, D. S. Jr, Zheng, R.-Z. and Turner, D. C. Somite pattern regulation in the avian segmental plate mesoderm 117, 770

Paddock, S. W. See Williams, J. A.

Padgett, R. W. See Hursh, D. A.

Palka, J. See Giangrande, A.

Palmes, C. See Sawai, S.

Palmiter, R. D. See Behringer, R. R.

Palmiter, R. D. See Kapur, R. P.

Papaioannou, V. E. See Brown, J. J. G.

Papalopulu, N. and Kintner, C. Xenopus Distal-less related homeobox genes are expressed in the developing forebrain and are induced by planar signals 117, 961

Parkhurst, S. M., Lipshitz, H. D. and Ish-Horowicz, D. achaete-scute feminizing activities and *Drosophila* sex determination 117, 737

Paulin, D. See Li, Z.

Pelaz, S., Urquia, N. and Morata, G. Normal and ectopic domains of the homeotic gene Sex combs reduced of Drosophila 117, 917

Persson, H. See Ibanez, C. F.

Pflugfelder, G. O. See Poeck, B.

Pini, A. See Fitzgerald, M. Piorecky, J. See Brook, W. J.

Placzek, M., Jessell, T. M. and Dodd, J. Induction of floor plate differentiation by contact-dependent, homeogenetic signals 117, 205

Poeck, B., Hofbauer, A. and Pflugfelder, G. O. Expression of the *Drosophila optomotor-blind* gene transcript in neuronal and glial cells of the developing nervous system 117, 1017

Price J. See Grove, E. A.

Pringle, N. P. and Richardson, W. D. A singularity of PDGF alpha-receptor expression in the dorsoventral axis of the neural tube may define the origin of the oligodendrocyte lineage 117, 525

Purcell, S. M. and Keller, R. A different type of amphibian mesoderm morphogenesis in *Ceratophrys ornata* 117, 307

Quarto, R., Dozin, B., Bonaldo, P., Cancedda, R. and Colombatti, A. Type VI collagen expression is upregulated in the early events of chondrocyte differentiation 117, 245

Ragsdale, C. W. Jr. See Hill, D. S.

Rashbass, P. See Wilson, V.

Ray, R. P. See Wharton, K. A.

Raymond, G. See Cognard, C.

Rees, D. See Matthews, K. A.

Reid, K. See Murphy, M.

Rhodes, S. J. See Smith, T. H.

Richardson, W. D. See Pringle, N. P.

Ried, G. See Stern, B.

Rivet-Bastide, M. See Cognard, C.

Robson, L. G. Cellular patterning of fast and slow fibres in the intermandibularis muscle of chick embryos 117, 329

Romero, M. R. and Torres, A. Cortical development associated with conjugation of /i Paramecium 117, 1099

Ross, M. E. See Kuhar, S. G.

Roth, S. Mechanisms of dorsal-ventral axis determination in Drosophila embryos revealed by cytoplasmic transplantations 117, 1385

Rubin, G. M. See Xu. T.

Ruffins, S. W. See Ettensohn, C. A.

Russell, M. A. See Brook, W. J.

Russo, M. A. See Tarone, G.

Saigo, K. See Shishido, E.

Salzberg, A., Cohen, N., Halachmi, N., Kimchie, Z. and Lev, Z. The Drosophila Ras2 and Rop gene pair: a dual homology with a yeast Ras-like gene and a suppressor of its loss-offunction phenotype 117, 1309

Sampedro, J., Johnston, P. and Lawrence, P. A. A role for wingless in the segmental gradient of Drosophila 117, 677

Santoni, M.-J. See Bally-Cuif, L.

Santos, V. See Diekwisch, T.

Sardet, C. See Houliston, E.

Sasaki, H. See Kobayashi, S.

Sawai, S., Shimono, A., Wakamatsu, Y., Palmes, C., Hanaoka, K. and Kondoh, H. Defects of embryonic organogenesis resulting from targeted disruption of the N-myc gene in the mouse 117, 1445

Schier, A. F. See Affolter, M.

Schimenti, J. C. See Ewulonu, U. K.

Senior, P. V. See Della, N. G.

Sharpe, P. T. See Jowett, A. K.

Shatz, C. J. See Ghosh, A.

Shenk, M. A., Bode, H. R. and Steele, R. E. Expression of Cnox-2, a HOM/HOX homeobox gene in hydra, is correlated with axial pattern formation 117, 657

Shimono, A. See Sawai, S.

Shishido, E., Higashijima, S.-i., Emori, Y. and Saigo, K. Two FGF-receptor homologues of Drosophila: one is expressed in mesodermal primordium in early embryos 117, 751

Silengo, L. See Tarone, G.

Simcox, A. A. See Cohen, B.

Simon, H.-G. and Tabin, C. J. Analysis of Hox-4.5 and Hox 3.6 expression during newt limb regeneration: differential regulation of paralogous Hox genes suggest different roles for members of different Hox clusters 117, 1397

Simpson, P. See Heitzler, P.

Siracusa, G. See Tarone, G.

Slack, J. M. W. See Lettice, L. A.

Slager, H. G. See Dickson, M. C. Slavkin, H. C. See Diekwisch, T.

Smith, J. C. See Albano, R. M.

Smith, T. H., Block, N. E., Rhodes, S. J., Konieczny, S. F. and Miller, J. B. A unique pattern of expression of the four muscle regulatory factor proteins distinguishes somitic from embryonic, fetal and newborn mouse myogenic cells 117, 1125

Sopper, M. M. See Ontell, M.

Stachel, S. E., Grunwald, D. J. and Myers, P. Z. Lithium perturbation and goosecoid expression identify a dorsal specification pathway in the pregastrula zebrafish 117, 1261

Steele, R. E. See Shenk, M. A.

Steinbeisser, H. See De Robertis, E. M.

Steinmann-Zwicky, M. Sex determination in Drosophila: sis-b, a major numerator element of the X:A ratio in the soma, does not contribute to the X:A ratio in the germ line 117, 763

Steller, H. See Abrams, J. M.

Stent, G. S. See Gleizer, L.

Stern, B., Ried, G., Clegg, N. J., Grigliatti, T. A. and Lehner. C. F. Genetic analysis of the *Drosophila cdc2* homolog 117,

Steward, R. See Govind, S.

Stuart, J. J., Brown, S. J., Beeman, R. W. and Denell, R. E. The Tribolium homeotic gene Abdominal is homologous to abdominal-A of the Drosophila bithorax complex 117, 233

Sudo, T. See Ogawa, M.

Swann, K. See Whitaker, M.

Tabin, C. J. See Simon, H.-G.

Takeuchi, I. See Ozaki, T.

Tarone, G., Russo, M. A., Hirsch, E., Odorisio, T., Altruda, F., Silengo, L. and Siracusa, G. Expression of \$1 integrin complexes on the surface of unfertilized mouse oocyte 117, 1369

Tasaka, M. See Ozaki, T.

Tennyson, V. M. See Behringer, R. R.

Thanos, S. See Wizenmann, A.

Thesleff, I. See Jowett, A. K.

Thomas, T. and Dziadek, M. Capacity to form choroid plexuslike cells in vitro is restricted to specific regions of mouse neural ectoderm 117, 253

Timmusk, T. See Ibanez, C. F.

Torres, A. See Romero, M. R.

Tucker, R. P. The in situ localization of tenascin splice variants and thrombospondin 2 mRNA in the avian embryo 117, 347

Turner, D. C. See Packard, D. S. Jr

Urquia, N. See Pelaz, S.

Vainio, S. See Jowett, A. K.

Valdimarsson, G. See De Sousa, P. A.

van Straaten, H. W. M., Hekking, J. W. M., Consten, C. and Copp, A. J. Intrinsic and extrinsic factors in the mechanism of neurulation: effect of curvature of the body axis on closure of the posterior neuropore 117, 1163

Vidan, S. See Kuhar, S. G.

Wakamatsu, Y. See Sawai, S.

Walldorf, U. See Affolter, M.

Walsh, F. S. See Moore, R.

Watt, F. M. See Adams, J. C. Wedeen, C. J. See Lans, D.

Weisblat, D. A. See Lans, D.

Weisshaar, B. See Edson, K.

Werb, Z. See Mac Auley, A.

Wharton, K. A., Ray, R. P. and Gelbart, W. M. An activity gradient of decapentaplegic is necessary for the specification of dorsal pattern elements in the Drosophila embryo 117, 807

Whitaker, M. and Swann, K. Lighting the fuse at fertilization

White, K. See Abrams, J. M.

Whitlock, K. E. Development of Drosophila wing sensory neurons in mutants with missing or modified cell surface molecules 117, 1251

Whittaker, C. A. and DeSimone, D. W. Integrin a subunit mRNAs are differentially expressed in early Xenopus embryos 117, 1239

Wilcox, M. See Fristrom, D.

Wilkinson, M. D. See Brook, W. J.

Williams, B. P. See Grove, E. A.

Williams, J. A., Paddock, S. W. and Carroll, S. B. Pattern formation in a secondary field: a hierarchy of regulatory genes subdivides the developing Drosophila wing disc into discrete subregions 117, 571

Wilson, V., Rashbass, P. and Beddington, R. S. P. Chimeric analysis of T (Brachyury) gene function 117, 1321

Wilt, F. See Lane, M. C.

Wizenmann, A., Thanos, S., Boxberg, Y. v. and Bonhoeffer, F. Differential reaction of crossing and non-crossing rat retinal axons on cell membrane preparations from the chiasm midline: Wolgemuth, D. J. See Behringer, R. R.

Wu, C. See Brown, J. L.

Xu, T. and Rubin, G. M. Analysis of genetic mosaics in developing and adult *Drosophila* tissues 117, 1223

Yancopoulos, G. D. See Ibanez, C. F. Yoshinaga, K. See Ogawa, M.

Yost, C. See Kapur, R. P.

Zheng, R.-Z. See Packard, D. S. Jr

Zhou, Y. See Mosquera, L.

Subject Index

Abdominal-B

Abdominal-B in Schistocera: KELSH, DAWSON AND AKAM 117, 293.

Abdominal

a beetle *abdominal-A* homolog: STUART, BROWN, BEEMAN AND DENELL **117**, 233.

achaete-scute complex

Drosophila AS-C feminizing activities: PARKHURST, LIPSHITZ AND ISH-HOROWICZ 117, 737.

Actin

contractile protein gene expression: ONTELL, ONTELL, SOPPER, MALLONGA, LYONS AND BUCKINGHAM 117, 1435.

MAP2-induced processes: EDSON, WEISSHAAR AND MATUS 117, 689.

Activin

in mouse preimplantation embryos: ALBANO, GROOME AND SMITH 117, 711.

Aldehyde dehydrogenase

retinoids in morphallaxis of budding tunicates: KAWAMURA, HARA AND FUJIWARA 117, 835.

Allantois

chimeric analysis of *T*(*Brachyury*): WILSON, RASHBASS AND BEDDINGTON 117, 1321.

Amelogenin

inhibition of amelogenin translation: DIEKWISCH, DAVID, BRINGAS, SANTOS AND SLAVKIN 117, 471.

Amphibia

mesoderm morphogenesis in *Ceratophyrs ornata*: PURCELL AND KELLER 117, 307.

Xenopus integrin α subunits: WHITTAKER AND DESIMONE 117, 1239.

Annelid

engrailed homologue expression in leech embryos: LANS, WEDEEN AND WEISBLAT 117, 857.

Antisense oligodeoxynucleotide

inhibition of amelogenin translation: DIEKWISCH, DAVID, BRINGAS, SANTOS AND SLAVKIN 117, 471.

Apical-basal pattern

gnom in Arabidopsis embryogenesis: MAYER, BUTTNER AND JURGENS 117, 149.

Apoptosis

cell death in the *Drosophila* embryo: ABRAMS, WHITE. FESSLER AND STELLER 117, 29.

apterous

wingless regulates wing formation: WILLIAMS, PADDOCK AND CARROLL 117, 571.

Arabidopsis

gnom in Arabidopsis embryogenesis: MAYER, BUTTNER AND JURGENS 117, 149.

Artificial microstructure

perpendicular contact guidance on microstructures: NAGATA, KAWANA AND NAKATSUJI 117, 401.

Aster

axis establishment and microtubules in *Beroe*: HOULISTON, CARRE, JOHNSTON AND SARDET 117, 75.

Avian embryo

tenascin and thrombospondin 2 mRNA: TUCKER 117, 347.

Axial curvature

axial curvature and neurulation: VAN STRAATEN, HEKKING, CONSTEN AND COPP 117, 1163.

Axis specification

Hox-4.5 and Hox-3.6 expression during newt regeneration: SIMON AND TABIN 117, 1397.

Axon guidance

by Delta and Notch: GINIGER, JAN AND JAN 117, 431.

Axonal branching

cell interactions in *Caenorhabditis* axonal guidance: GARRIGA, DESAI AND HORVITZ 117, 1071.

Axonal growth

cell interactions in *Caenorhabditis* axonal guidance: GARRIGA, DESAI AND HORVITZ 117, 1071. guidance of retinal axons by chiasm membranes: WIZENMANN, THANOS, BOXBERG AND

BONHOEFFER 117, 725.

Axonogenesis

wing sensory axons in *Drosophila* mutants: WHITLOCK 117, 1251.

Basement membrane

collagen IV cleavage in *Drosophila*: FESSLER, CONDIC, NELSON, FESSLER AND FRISTROM 117, 1061.

Beroe ovata

axis establishment and microtubules in *Beroe*: HOULISTON, CARRE, JOHNSTON AND SARDET 117, 75.

bHLH

delayed somitogenesis in quail: COUTINHO, MORRIS, MARKS, BUHR AND IVARIE 117, 563.

Bidirectional promoter

Drosophila Ras2 and Rop genes: SALZBERG, COHEN, HALACHMI, KIMCHIE AND LEV 117, 1309.

Biomineralization

inhibition of amelogenin translation: DIEKWISCH, DAVID, BRINGAS, SANTOS AND SLAVKIN 117, 471.

Bithorax complex

autoregulation by *Ultrabithorax*: IRVINE, BOTAS, JHA, MANN AND HOGNESS 117, 387.

bmi-1

Psc is a chromosomal protein: MARTIN 117, 641.

Bolwig's nerve

brain-specific-homeobox gene in Drosophila: JONES AND MCGINNIS 117, 793.

Brain

brain-specific-homeobox gene in Drosophila: JONES AND MCGINNIS 117, 793.

regional specification of neural ectoderm: THOMAS AND DZIADEK 117, 253.

Brain-derived neurotrophic factor

neurotrophin-4 is a neurotrophic factor for trigeminal ganglion: IBANEZ, ERNFORS, TIMMUSK, IP, ARENAS, YANCOPOULOS AND PERSSON 117, 1345.

Branchial arch

gene expression in *kreisler* mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925. *goosecoid* expression in murine organogenesis: GAUNT, BLUM AND DE ROBERTIS 117, 769.

Budding

retinoids in morphallaxis of budding tunicates: KAWAMURA, HARA AND FUJIWARA 117, 835.

cactus

a gradient of dorsal protein: GOVIND, BRENNAN AND STEWARD 117, 135.

Cadherin

M-cadherin expression in skeletal muscle: MOORE AND WALSH 117, 1409.

Caenorhabditis

cell interactions in *Caenorhabditis* axonal guidance: GARRIGA, DESAI AND HORVITZ 117, 1071.

Calcium concentration

lighting the fuse at fertilization: WHITAKER AND SWANN

Calcium current

I_{Ca} and contraction appearance in muscle: COGNARD, CONSTANTIN, RIVET-BASTIDE, IMBERT, BESSE AND RAYMOND 117, 1153.

Carbohydrate

wing sensory axons in *Drosophila* mutants: WHITLOCK 117, 1251.

Cardiogenesis

TGFβ2 in heart development: DICKSON, SLAGER, DUFFIE, MUMMERY AND AKHURST 117, 625.

Cat

subplate neurons and cortical targeting: GHOSH AND SHATZ 117, 1031.

Caudal

mouse Cdx-1 expression during gastrulation: MEYER AND GRUSS 117, 191.

cdc2c

Drosophila cdc2 mutants: STERN, RIED, CLEGG, GRIGLIATTI AND LEHNER 117, 219.

cdc2

Drosophila cdc2 mutants: STERN, RIED, CLEGG, GRIGLIATTI AND LEHNER 117, 219.

(

mouse Cdx-1 expression during gastrulation: MEYER AND GRUSS 117, 191.

Cell ablation

segmental identity in the mesoderm: GLEIZER AND STENT 117, 177.

Cell adhesion

Drosophila wing development: FRISTROM, WILCOX AND FRISTROM 117, 509.

M-cadherin expression in skeletal muscle: MOORE AND WALSH 117, 1409.

NCAM in mouse neural tube: BALLY-CUIF, GORIDIS AND SANTONI 117, 543.

Cell commitment

segmental identity in the mesoderm: GLEIZER AND STENT 117, 177.

Cell cycle

cell cycle during rat gastrulation: MAC AULEY, WERB AND MIRKES 117, 873.

control of lens growth and cell polarity: HYATT AND BEEBE 117, 701.

fizzy mutations cause metaphase arrest: DAWSON, ROTH, AKAM AND ARTAVANIS-TSAKONAS 117, 359.

Drosophila cdc2 mutants: STERN, RIED, CLEGG, GRIGLIATTI AND LEHNER 117, 219.

Cell death

cell death in the *Drosophila* embryo: ABRAMS, WHITE, FESSLER AND STELLER 117, 29.

wingless regulates wing formation: WILLIAMS, PADDOCK AND CARROLL 117, 571.

Cell fate

Delta and Notch in cell interactions: KOOH, FEHON AND MUSKAVITCH 117, 493.

mesodermal cell interactions in sea urchin embryo: ETTENSOHN AND RUFFINS **117**, 1275.

role of *Notch* in cell fate decisions: HEITZLER AND SIMPSON 117, 1113.

Cell growth

control of lens growth and cell polarity: HYATT AND BEEBE 117, 701.

Cell interaction

mesodermal cell interactions in sea urchin embryo: ETTENSOHN AND RUFFINS 117, 1275. role of *Notch* in cell fate decisions: HEITZLER AND SIMPSON 117, 1113.

Cell junction

ubiquitous expression of wingless: SAMPEDRO, JOHNSTON AND LAWRENCE 117, 677.

Cell line

MAP2-induced processes: EDSON, WEISSHAAR AND MATUS 117, 689.

Cell lineage

engrailed homologue expression in leech embryos: LANS, WEDEEN AND WEISBLAT 117, 857.

gliogenesis in insect ENS: COPENHAVER 117, 59.

regional specification of neural ectoderm: THOMAS AND DZIADEK 117, 253.

restricted cortical cell lineages: GROVE, WILLIAMS, LI, HAJIHOSSEINI AND FRIEDRICH 117, 553.

segmental identity in the mesoderm: GLEIZER AND STENT 117, 177.

Cell marker

mosaic analysis in Drosophila: XU AND RUBIN 117, 1223.

Cell migration

chimeras with ls/ls transgenic embryos: KAPUR, YOST AND PALMITER 117, 993.

Cell signalling

lighting the fuse at fertilization: WHITAKER AND SWANN 117, 1.

Cell surface

wing sensory axons in *Drosophila* mutants: WHITLOCK 117, 1251.

Cell-cell adhesion

cingulin expression in embryos: JAVED, FLEMING, HAY AND CITI 117, 1145.

Central nervous system

brain-specific-homeobox gene in Drosophila: JONES AND MCGINNIS 117, 793.

two *Drosophila* FGF-receptor homologues: SHISHIDO, HIGASHIJIMA, EMORI AND SAIGO 117, 751.

Cephalic mesenchyme

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

Cerebellar compartments

enhancer regions in the mouse *En-2* locus: LOGAN, KHOO, CADO AND JOYNER **117**, 905.

Cerebellum

cDNAs mark stages of granule cell development: KUHAR, FENG, VIDAN, ROSS, HATTEN AND HEINTZ 117, 97.

Cerebral cortex

restricted cortical cell lineages: GROVE, WILLIAMS, LI, HAJIHOSSEINI AND FRIEDRICH 117, 553.

subplate neurons and cortical targeting: GHOSH AND SHATZ 117, 1031.

Cervical spinal cord

postnatal motoneuron maturation in rats: CURFS, GRIBNAU AND DEDEREN 117, 535.

Chick chimera

germline chimeric chickens: CARSIENCE, CLARK, GIBBINS AND ETCHES 117, 669.

Chick collagen

early upregulation of type VI collagen: QUARTO, DOZIN, BONALDO, CANCEDDA AND COLOMBATTI 117, 245.

Chick lens

control of lens growth and cell polarity: HYATT AND BEEBE 117, 701.

Chick myogenesis

patterning of fast and slow fibres: ROBSON 117, 329.

Chick nervous system

Pax gene expression in the developing chick spinal cord: GOULDING, LUMSDEN AND GRUSS 117, 1001. segmental organization of chick hindbrain: KURATANI AND

Chick neurulation

EICHELE 117, 105.

axial curvature and neurulation: VAN STRAATEN, HEKKING, CONSTEN AND COPP 117, 1163.

Chick somite

somite pattern regulation: PACKARD, ZHENG AND TURNER 117, 779.

Chick tenascin

tenascin and thrombospondin 2 mRNA: TUCKER 117, 347.

Chimera

chimeric analysis of *T*(*Brachyury*): WILSON, RASHBASS AND BEDDINGTON **117**, 1321.

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

germline chimeric chickens: CARSIENCE, CLARK, GIBBINS AND ETCHES 117, 669.

segmental organization of chick hindbrain: KURATANI AND EICHELE 117, 105.

Chondrocyte

early upregulation of type VI collagen: QUARTO, DOZIN, BONALDO, CANCEDDA AND COLOMBATTI 117, 245,

Choriod plexus

regional specification of neural ectoderm: THOMAS AND DZIADEK 117, 253.

Chromosomal protein

Psc is a chromosomal protein: MARTIN 117, 641.

Cingulin

cingulin expression in embryos: JAVED, FLEMING, HAY AND CITI 117, 1145.

cingulin localisation in embryos: FLEMING, HAY, JAVED AND CITI 117, 1135.

cis regulation

decapentaplegic in visceral mesoderm: HURSH, PADGETT AND GELBART 117, 1211.

Cis-acting elements

Hox-1.4 directed expression in transgenic mice: BEHRINGER, CROTTY, TENNYSON, BRINSTER, PALMITER AND WOLGEMUTH 117, 823.

Cleavage

axis establishment and microtubules in *Beroe*: HOULISTON, CARRE, JOHNSTON AND SARDET 117, 75.

collagen IV cleavage in *Drosophila*: FESSLER, CONDIC, NELSON, FESSLER AND FRISTROM 117, 1061.

Cnidaria

axial expression of Cnox-2 in hydra: SHENK, BODE AND STEELE 117, 657.

Cnox-2

axial expression of *Cnox-2* in hydra: SHENK, BODE AND STEELE **117**, 657.

CNS

the origin of oligodendrocytes?: PRINGLE AND RICHARDSON 117, 525.

pointed encodes two ETS-like proteins: KLAMBT 117, 163.

CNS development

cDNAs mark stages of granule cell development: KUHAR, FENG, VIDAN, ROSS, HATTEN AND HEINTZ 117, 97.

CNS expression

paired expression and regulation: GUTJAHR, FREI AND NOLL 117, 609.

CNS neuroblasts

perpendicular contact guidance on microstructures: NAGATA, KAWANA AND NAKATSUJI 117, 401.

Collagen IV

collagen IV cleavage in *Drosophila*: FESSLER, CONDIC, NELSON, FESSLER AND FRISTROM 117, 1061.

Collagen VI

early upregulation of type VI collagen: QUARTO, DOZIN, BONALDO, CANCEDDA AND COLOMBATTI 117, 245.

Concentration

ubiquitous expression of wingless: SAMPEDRO, JOHNSTON AND LAWRENCE 117, 677.

Conduction system

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

Congenital defect

chimeras with ls/ls transgenic embryos: KAPUR, YOST AND PALMITER 117, 993.

Conjugation

cortical development in conjugant *Paramecium*: ROMERO AND TORRES 117, 1099.

Connexin43

control of gap junction assembly in mouse: DE SOUSA, VALDIMARSSON, NICHOLSON AND KIDDER 117, 1355.

Contraction

I_{Ca} and contraction appearance in muscle: COGNARD, CONSTANTIN, RIVET-BASTIDE, IMBERT, BESSE AND RAYMOND 117, 1153.

Cortical cytoskeleton

vegetally localized maternal RNA: MOSQUERA, FORRISTALL, ZHOU AND KING 117, 377.

Cortical morphogenesis

cortical development in conjugant *Paramecium*: ROMERO AND TORRES 117, 1099.

Coturnix

delayed somitogenesis in quail: COUTINHO, MORRIS, MARKS, BUHR AND IVARIE 117, 563.

CRABP I

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

Craniofacial development

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

msx 1 and msx 2 during tissue interactions: JOWETT, VAINIO, FERGUSON, SHARPE AND THESLEFF 117, 461.

CRBP I

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

CTB-HRP

postnatal motoneuron maturation in rats: CURFS, GRIBNAU AND DEDEREN 117, 535.

Ctenophore

axis establishment and microtubules in *Beroe*: HOULISTON, CARRE, JOHNSTON AND SARDET 117, 75.

cut locus

cut expression in Drosophila: BLOCHLINGER, JAN AND JAN 117, 441.

Cytoskeleton

MAP2-induced processes: EDSON, WEISSHAAR AND MATUS 117, 689.

decapentaplegic

allocation of leg and wing imaginal discs: COHEN, SIMCOX AND COHEN 117, 597.

decapentaplegic gradient in Drosophila: WHARTON, RAY AND GELBART 117, 807. decapentaplegic in visceral mesoderm: HURSH, PADGETT AND GELBART 117, 1211.

Deformed

Deformed regulates Distal-less: O'HARA, COHEN, COHEN AND MCGINNIS 117, 847.

Delta

axon guidance by *Delta* and *Notch*: GINIGER, JAN AND JAN 117, 431.

Delta and Notch in cell interactions: KOOH, FEHON AND MUSKAVITCH 117, 493.

role of *Notch* in cell fate decisions: HEITZLER AND SIMPSON 117, 1113.

Dendritic field

postnatal motoneuron maturation in rats: CURFS, GRIBNAU AND DEDEREN 117, 535.

Desmin gene

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

Developmental mutant

tail and inner ear defects in int-2 mutant mice: MANSOUR, GODDARD AND CAPECCHI 117, 13.

Diacylglycerol

axial expression of *Cnox-2* in hydra: SHENK, BODE AND STEELE 117, 657.

Dictyostelium

expression of Dp87 gene in *Dictyostelium*: OZAKI, NAKAO, ORII, MORIO, TAKEUCHI AND TASAKA **117**, 1299.

Differentiation

early upregulation of type VI collagen: QUARTO, DOZIN, BONALDO, CANCEDDA AND COLOMBATTI 117, 245. extracellular matrix and differentiation: ADAMS AND WATT 117, 1183.

Distal forepaw

postnatal motoneuron maturation in rats: CURFS, GRIBNAU AND DEDEREN 117, 535.

Distal-less

allocation of leg and wing imaginal discs: COHEN, SIMCOX AND COHEN 117, 597.

Deformed regulates Distal-less: O'HARA, COHEN, COHEN AND MCGINNIS 117, 847.

distal-less

Xenopus distal-less in forebrain development: PAPALOPULU AND KINTNER 117, 961.

DNA-binding protein

transcriptional regulation of *Tcp-10b*: EWULONU, BURATYNSKI AND SCHIMENTI **117**, 89.

Dorsal axis determination

early specification of zebrafish dorsventral axis: STACHEL, GRUNWALD AND MYERS 117, 1261.

Dorsal root ganglion

ventral spinal cord inhibits DRG outgrowth: FITZGERALD, KWIAT, MIDDLETON AND PINI 117, 1377.

Dorsal-ventral patterning

decapentaplegic gradient in Drosophila: WHARTON, RAY AND GELBART 117, 807.

Dorsalization

dorsalization in *Xenopus* gastrulae: LETTICE AND SLACK 117, 263.

dorsal

a gradient of dorsal protein: GOVIND, BRENNAN AND STEWARD 117, 135.

Dorsoventral axis

a gradient of dorsal protein: GOVIND, BRENNAN AND STEWARD 117, 135.

the origin of oligodendrocytes?: PRINGLE AND RICHARDSON 117, 525.

Dorsoventral expression

Pax gene expression in the developing chick spinal cord: GOULDING, LUMSDEN AND GRUSS 117, 1001.

Dosage compensation

Drosophila AS-C feminizing activities: PARKHURST, LIPSHITZ AND ISH-HOROWICZ 117, 737.

DP87 gene

expression of Dp87 gene in *Dictyostelium*: OZAKI, NAKAO, ORII, MORIO, TAKEUCHI AND TASAKA **117**, 1299.

Drosophila axis

dorsal-ventral pattern formation in *Drosophila*: ROTH 117, 1385.

Drosophila cell death

cell death in the *Drosophila* embryo: ABRAMS, WHITE, FESSLER AND STELLER 117, 29.

Drosophila cell division

a functionally unique a-tubulin isotype: MATTHEWS, REES AND KAUFMAN 117, 977.

Drosophila cell fate

Delta and Notch in cell interactions: KOOH, FEHON AND MUSKAVITCH 117, 493.

role of *Notch* in cell fate decisions: HEITZLER AND SIMPSON 117, 1113.

Drosophila collagen

collagen IV cleavage in *Drosophila*: FESSLER, CONDIC, NELSON, FESSLER AND FRISTROM 117, 1061.

Drosophila eye

murine homologues of seven in absentia: DELLA, SENIOR AND BOWTELL 117, 1333.

Drosophila gene

a gradient of dorsal protein: GOVIND, BRENNAN AND STEWARD 117, 135.

autoregulation by *Ultrabithorax*: IRVINE, BOTAS, JHA, MANN AND HOGNESS **117**, 387.

conservation of hairy regulation: LANGELAND AND CARROLL 117, 585.

decapentaplegic in visceral mesoderm: HURSH, PADGETT AND GELBART 117, 1211.

Deformed regulates Distal-less: O'HARA, COHEN, COHEN AND MCGINNIS 117, 847.

Psc is a chromosomal protein: MARTIN 117, 641.

Ras2 and Rop genes: SALZBERG, COHEN, HALACHMI, KIMCHIE AND LEV 117, 1309.

regional repression of a *Drosophila* POU box gene: AFFOLTER, WALLDORF, KLOTER, SCHIER AND GEHRING 117, 1199.

regulation of wingless transcription in *Drosophila*: INGHAM AND HIDALGO 117, 283.

repression of *Drosophila* pair-rule genes by *tramtrack*: BROWN AND WU 117, 45.

Scr ectopic expression: PELAZ, URQUIA AND MORATA 117, 917.

Drosophila growth factor

two *Drosophila* FGF-receptor homologues: SHISHIDO, HIGASHIJIMA, EMORI AND SAIGO **117**, 751.

Drosophila homolog

a beetle abdominal-A homolog: STUART, BROWN, BEEMAN AND DENELL 117, 233.

Drosophila imaginal disc

allocation of leg and wing imaginal discs: COHEN, SIMCOX AND COHEN 117, 597.

cut expression in Drosophila: BLOCHLINGER, JAN AND JAN 117, 441.

regeneration genes in *Drosophila*: BROOK, OSTAFICHUK, PIORECKY, WILKINSON, HODGETTS AND RUSSELL **117**, 1287.

Drosophila mosaic

mosaic analysis in Drosophila: XU AND RUBIN 117, 1223.

Drosophila mutant

cdc2 mutants: STERN, RIED, CLEGG, GRIGLIATTI AND LEHNER 117, 219.

fizzy mutations cause metaphase arrest: DAWSON, ROTH, AKAM AND ARTAVANIS-TSAKONAS 117, 359.

homeotic protein expression in *trithorax* mutants: BREEN AND HARTE 117, 119.

Drosophila nervous system

axon guidance by *Delta* and *Notch*: GINIGER, JAN AND JAN 117, 431.

brain-specific-homeobox gene in Drosophila: JONES AND MCGINNIS 117, 793.

gliogenesis in the adult fly PNS: GIANGRANDE, MURRAY AND PALKA 117, 895.

optomotor-blind in Drosophila nervous system development: POECK, HOFBAUER AND PFLUGFELDER 117, 1017. pointed encodes two ETS-like proteins: KLAMBT 117, 163.

Drosophila neurogenesis

wing sensory axons in *Drosophila* mutants: WHITLOCK 117, 1251.

Drosophila oogenesis

Drosophila ovarian follicles: GIORGI, LUCCHESI, MORELLI AND BOWNES 117, 319.

Drosophila pattern formation

decapentaplegic gradient in Drosophila: WHARTON, RAY AND GELBART 117, 807.

Drosophila pole cell

P-element splicing in pole cells: KOBAYASHI, KITAMURA, SASAKI AND OKADA 117, 885.

Drosophila segmentation

paired expression and regulation: GUTJAHR, FREI AND NOLL 117, 609.

ubiquitous expression of wingless: SAMPEDRO, JOHNSTON AND LAWRENCE 117, 677.

Drosophila sex determination

a germ cell-specific X:A ratio in *Drosophila*: STEINMANN-ZWICKY 117, 763.

Drosophila AS-C feminizing activities: PARKHURST, LIPSHITZ AND ISH-HOROWICZ 117, 737.

Drosophila wing

Drosophila wing development: FRISTROM, WILCOX AND FRISTROM 117, 509.

wingless regulates wing formation: WILLIAMS, PADDOCK AND CARROLL 117, 571.

Dye coupling

control of gap junction assembly in mouse: DE SOUSA, VALDIMARSSON, NICHOLSON AND KIDDER 117, 1355.

Ear

goosecoid expression in murine organogenesis: GAUNT, BLUM AND DE ROBERTIS 117, 769.

Ectoderm

cell cycle during rat gastrulation: MAC AULEY, WERB AND MIRKES 117, 873.

hyaluronic acid in the early mouse embryo: BROWN AND PAPAIOANNOU 117, 483.

Ectopic expression

repression of *Drosophila* pair-rule genes by *tramtrack*: BROWN AND WU 117, 45.

EGF receptor

mosaic analysis in Drosophila: XU AND RUBIN 117, 1223.

Egg cytoplsm

lighting the fuse at fertilization: WHITAKER AND SWANN 117, 1.

Embryogenesis

a beetle *abdominal-A* homolog: STUART, BROWN, BEEMAN AND DENELL 117, 233.

Embryonic axis

axis establishment and microtubules in *Beroe*: HOULISTON, CARRE, JOHNSTON AND SARDET 117, 75.

Embryonic ectoderm

hyaluronic acid in the early mouse embryo: BROWN AND PAPAIOANNOU 117, 483.

Embryonic shield

early specification of zebrafish dorsventral axis: STACHEL, GRUNWALD AND MYERS 117, 1261.

Ename

inhibition of amelogenin translation: DIEKWISCH, DAVID, BRINGAS, SANTOS AND SLAVKIN 117, 471.

Endocytosis

Drosophila Ras2 and Rop genes: SALZBERG, COHEN, HALACHMI, KIMCHIE AND LEV 117, 1309.

Endoderm

hyaluronic acid in the early mouse embryo: BROWN AND PAPAIOANNOU 117, 483.

regional repression of a *Drosophila* POU box gene: AFFOLTER, WALLDORF, KLOTER, SCHIER AND GEHRING 117, 1199.

engrailed

homologue expression in leech embryos: LANS, WEDEEN AND WEISBLAT 117, 857.

Engrailed

enhancer regions in the mouse En-2 locus: LOGAN, KHOO, CADO AND JOYNER 117, 905.

Enhancer detection

regeneration genes in *Drosophila*: BROOK, OSTAFICHUK, PIORECKY, WILKINSON, HODGETTS AND RUSSELL 117, 1287.

Enhancer trap lines

gliogenesis in the adult fly PNS: GIANGRANDE, MURRAY AND PALKA 117, 895.

Enteric nervous system

gliogenesis in insect ENS: COPENHAVER 117, 59.

Epidermal growth factor

role of *Notch* in cell fate decisions: HEITZLER AND SIMPSON **117**, 1113.

Epithelial biogenesis

cingulin expression in embryos: JAVED, FLEMING, HAY AND CITI 117, 1145.

cingulin localisation in embryos: FLEMING, HAY, JAVED AND CITI **117**, 1135.

Epithelial-mesenchymal interaction

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

msx 1 and msx 2 during tissue interactions: JOWETT, VAINIO, FERGUSON, SHARPE AND THESLEFF 117, 461.

ES cell

activin in mouse preimplantation embryos: ALBANO, GROOME AND SMITH 117, 711.

chimeric analysis of T(Brachyury): WILSON, RASHBASS AND BEDDINGTON 117, 1321.

N- gene in the mouse: SAWAI, SHIMONO, WAKAMATSU, PALMES, HANAOKA AND KONDOH 117, 1445.

tail and inner ear defects in int-2 mutant mice: MANSOUR, GODDARD AND CAPECCHI 117, 13.

Evolution

a beetle abdominal-A homolog: STUART, BROWN, BEEMAN AND DENELL 117, 233.

Expression

cut expression in Drosophila: BLOCHLINGER, JAN AND JAN 117, 441.

Extracellular matrix

epithelial invagination in sea urchin: LANE, KOEHL, WILT AND KELLER 117, 1049.

extracellular matrix and differentiation: ADAMS AND WATT 117, 1183.

Eye

murine homologues of seven in absentia: DELLA, SENIOR AND BOWTELL 117, 1333.

Facial skeleton

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

Fasciculation

cell interactions in *Caenorhabditis* axonal guidance: GARRIGA, DESAI AND HORVITZ **117**, 1071.

Fertilization

lighting the fuse at fertilization: WHITAKER AND SWANN 117, 1.

Fetal hematopoisesis

role of c-kit in fetal hematopoiesis: OGAWA, NISHIKAWA, YOSHINAGA, HAYASHI, KUNISADA, NAKAO, KINA, SUDO, KODAMA AND NISHIKAWA 117, 1089.

FGF

two *Drosophila* FGF-receptor homologues: SHISHIDO, HIGASHIJIMA, EMORI AND SAIGO 117, 751.

FGF-2

maintenance of ZPA signaling in vitro: ANDERSON, LANDRY AND MUNEOKA 117, 1421.

Fgf-3

gene expression in *kreisler* mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925. tail and inner ear defects in *int-2* mutant mice: MANSOUR, GODDARD AND CAPECCHI 117, 13.

Fibre type

patterning of fast and slow fibres: ROBSON 117, 329.

Fibroblast growth factor

two *Drosophila* FGF-receptor homologues: SHISHIDO, HIGASHIJIMA, EMORI AND SAIGO 117, 751.

fizzy gene

fizzy mutations cause metaphase arrest: DAWSON, ROTH, AKAM AND ARTAVANIS-TSAKONAS 117, 359.

Floor plate

floor plate induction: PLACZEK, JESSELL AND DODD 117, 205.

Pax gene expression in the developing chick spinal cord: GOULDING, LUMSDEN AND GRUSS 117, 1001.

Forebrain

Xenopus distal-less in forebrain development: PAPALOPULU AND KINTNER 117, 961.

Frontal bone

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

G-protein

lighting the fuse at fertilization: WHITAKER AND SWANN 117, 1.

β-galactosidase

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

Gap gene

paired expression and regulation: GUTJAHR, FREI AND NOLL 117, 609.

Gap protein

conservation of hairy regulation: LANGELAND AND CARROLL 117, 585.

Garland cell

Drosophila Ras2 and Rop genes: SALZBERG, COHEN, HALACHMI, KIMCHIE AND LEV 117, 1309.

Gastrulation

cell cycle during rat gastrulation: MAC AULEY, WERB AND MIRKES 117, 873.

chimeric analysis of T(Brachyury): WILSON, RASHBASS AND BEDDINGTON 117, 1321.

dorsalization in *Xenopus* gastrulae: LETTICE AND SLACK 117, 263.

epithelial invagination in sea urchin: LANE, KOEHL, WILT AND KELLER 117, 1049.

hyaluronic acid in the early mouse embryo: BROWN AND PAPAIOANNOU 117, 483.

mesodermal cell interactions in sea urchin embryo: ETTENSOHN AND RUFFINS 117, 1275.

mouse Cdx-1 expression during gastrulation: MEYER AND GRUSS 117, 191.

Xenopus integrin α subunits: WHITTAKER AND DESIMONE 117, 1239.

Gene disruption

tail and inner ear defects in *int-2* mutant mice: MANSOUR, GODDARD AND CAPECCHI 117, 13.

Gene expression

contractile protein gene expression: ONTELL, ONTELL, SOPPER, MALLONGA, LYONS AND BUCKINGHAM 117, 1435.

optomotor-blind in Drosophila nervous system development: POECK, HOFBAUER AND PFLUGFELDER 117, 1017. goosecoid expression in murine organogenesis: GAUNT, BLUM AND DE ROBERTIS 117, 769.

Gene regulation

paired expression and regulation: GUTJAHR, FREI AND NOLL 117, 609.

regulation of wingless transcription in *Drosophila*: INGHAM AND HIDALGO 117, 283.

Gene targeting

tail and inner ear defects in int-2 mutant mice: MANSOUR, GODDARD AND CAPECCHI 117, 13.

Genetic mosaic

mosaic analysis in Drosophila: XU AND RUBIN 117, 1223.

Genetic screen

mosaic analysis in Drosophila: XU AND RUBIN 117, 1223.

Germ cell

a germ cell-specific X:A ratio in *Drosophila*: STEINMANN-ZWICKY 117, 763.

Germ layer

regional repression of a *Drosophila* POU box gene: AFFOLTER, WALLDORF, KLOTER, SCHIER AND GEHRING 117, 1199.

Germline chimera

germline chimeric chickens: CARSIENCE, CLARK, GIBBINS AND ETCHES 117, 669.

Glial cell

gliogenesis in the adult fly PNS: GIANGRANDE, MURRAY AND PALKA 117, 895.

optomotor-blind in Drosophila nervous system development: POECK, HOFBAUER AND PFLUGFELDER 117, 1017. the origin of oligodendrocytes?: PRINGLE AND

RICHARDSON 117, 525.

Glial differentiation

gliogenesis in insect ENS: COPENHAVER 117, 59.

Glial progenitor

gliogenesis in insect ENS: COPENHAVER 117, 59.

gnom gene

gnom in Arabidopsis embryogenesis: MAYER, BUTTNER AND JURGENS 117, 149.

goosecoid

early specification of zebrafish dorsventral axis: STACHEL, GRUNWALD AND MYERS 117, 1261.

goosecoid expression in murine organogenesis: GAUNT, BLUM AND DE ROBERTIS 117, 769.

Granule neuron

cDNAs mark stages of granule cell development: KUHAR, FENG, VIDAN, ROSS, HATTEN AND HEINTZ 117, 97.

Growth factor

control of lens growth and cell polarity: HYATT AND BEEBE 117, 701.

extracellular matrix and differentiation: ADAMS AND WATT 117, 1183.

neurotrophin-4 is a neurotrophic factor for trigeminal ganglion: IBANEZ, ERNFORS, TIMMUSK, IP, ARENAS, YANCOPOULOS AND PERSSON 117, 1345.

ventral spinal cord inhibits DRG outgrowth: FITZGERALD, KWIAT, MIDDLETON AND PINI 117, 1377.

Growth regulation

cell cycle during rat gastrulation: MAC AULEY, WERB AND MIRKES 117, 873.

hairy

conservation of hairy regulation: LANGELAND AND CARROLL 117, 585.

Head development

segmental organization of chick hindbrain: KURATANI AND EICHELE 117, 105.

Head segmentation mechanism

segmental organization of chick hindbrain: KURATANI AND EICHELE 117, 105.

Heart

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

Heat-shock construct

ubiquitous expression of wingless: SAMPEDRO, JOHNSTON AND LAWRENCE 117, 677.

hedgehog

regulation of wingless transcription in Drosophila: INGHAM AND HIDALGO 117, 283.

Helix-loop-helix protein

Drosophila AS-C feminizing activities: PARKHURST, LIPSHITZ AND ISH-HOROWICZ 117, 737.

Hematopoietic stem cell

role of c-kii in fetal hematopoiesis: OGAWA, NISHIKAWA, YOSHINAGA, HAYASHI, KUNISADA, NAKAO, KINA, SUDO, KODAMA AND NISHIKAWA 117, 1089.

Hepatoma cell line

MAP2-induced processes: EDSON, WEISSHAAR AND MATUS 117, 689.

Hindbrain development

gene expression in *kreisler* mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925.

Hirschsprung's disease

chimeras with *ls/ls* transgenic embryos: KAPUR, YOST AND PALMITER **117**, 993.

HOM/HOX

axial expression of *Cnox-2* in hydra: SHENK, BODE AND STEELE **117**, 657.

Homeobox gene

axial expression of *Cnox-2* in hydra: SHENK, BODE AND STEELE **117**, 657.

enhancer regions in the mouse *En-2* locus: LOGAN, KHOO, CADO AND JOYNER 117, 905.

gene expression in *kreisler* mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925.

mouse Cdx-1 expression during gastrulation: MEYER AND GRUSS 117, 191.

Xenopus distal-less in forebrain development: PAPALOPULU AND KINTNER 117, 961.

brain-specific-homeobox gene in Drosophila: JONES AND MCGINNIS 117, 793.

early specification of zebrafish dorsventral axis: STACHEL, GRUNWALD AND MYERS 117, 1261.

Hox-1.4 directed expression in transgenic mice: BEHRINGER, CROTTY, TENNYSON, BRINSTER, PALMITER AND WOLGEMUTH 117, 823.

Hox-4.5 and Hox-3.6 expression during newt regeneration: SIMON AND TABIN 117, 1397.

Homeobox protein

segmental organization of chick hindbrain: KURATANI AND EICHELE 117, 105.

Homeotic expression

Scr ectopic expression: PELAZ, URQUIA AND MORATA 117, 917.

Homeotic gene

Abdominal-B in Schistocera: KELSH, DAWSON AND AKAM 117, 293.

autoregulation by *Ultrabithorax*: IRVINE, BOTAS, JHA, MANN AND HOGNESS **117**, 387.

regional repression of a *Drosophila* POU box gene: AFFOLTER, WALLDORF, KLOTER, SCHIER AND GEHRING 117, 1199.

Homeotic gene regulation

homeotic protein expression in *trithorax* mutants: BREEN AND HARTE 117, 119.

Homeotic selector gene

Deformed regulates Distal-less: O'HARA, COHEN, COHEN AND MCGINNIS 117, 847.

Homeotic transformation

a beetle abdominal-A homolog: STUART, BROWN, BEEMAN AND DENELL 117, 233.

Hox gene expression

gene expression in kreisler mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925.

Hox-3.6

Hox-4.5 and Hox-3.6 expression during newt regeneration: SIMON AND TABIN 117, 1397.

Hox-4.5

Hox-4.5 and Hox-3.6 expression during newt regeneration: SIMON AND TABIN 117, 1397.

Human

MAP2-induced processes: EDSON, WEISSHAAR AND MATUS 117, 689.

Hvaluronar

hyaluronic acid in the early mouse embryo: BROWN AND PAPAIOANNOU 117, 483.

Hydra

axial expression of *Cnox-2* in hydra: SHENK, BODE AND STEELE 117, 657.

Hyoid bone

gene expression in *kreisler* mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925.

Hyperplasia

delayed somitogenesis in quail: COUTINHO, MORRIS, MARKS, BUHR AND IVARIE 117, 563.

Imaginal disc

allocation of leg and wing imaginal discs: COHEN, SIMCOX AND COHEN 117, 597.

collagen IV cleavage in *Drosophila*: FESSLER, CONDIC, NELSON, FESSLER AND FRISTROM 117, 1061.

cut expression in Drosophila: BLOCHLINGER, JAN AND JAN 117, 441.

regeneration genes in *Drosophila*: BROOK, OSTAFICHUK, PIORECKY, WILKINSON, HODGETTS AND RUSSELL 117, 1287.

Immunoglobulin superfamily

two Drosophila FGF-receptor homologues: SHISHIDO, HIGASHIJIMA, EMORI AND SAIGO 117, 751.

Implantation

hyaluronic acid in the early mouse embryo: BROWN AND PAPAIOANNOU 117, 483.

In situ hybridization

cDNAs mark stages of granule cell development: KUHAR, FENG, VIDAN, ROSS, HATTEN AND HEINTZ 117, 97. early specification of zebrafish dorsventral axis: STACHEL.

GRUNWALD AND MYERS 117, 1261.

M-cadherin expression in skeletal muscle: MOORE AND WALSH 117, 1409.

msx 1 and msx 2 during tissue interactions: JOWETT, VAINIO, FERGUSON, SHARPE AND THESLEFF 117, 461.

neurotrophin-4 is a neurotrophic factor for trigeminal ganglion: IBANEZ, ERNFORS, TIMMUSK, IP, ARENAS, YANCOPOULOS AND PERSSON 117, 1345.

tenascin and thrombospondin 2 mRNA: TUCKER 117, 347. TGFβ2 in heart development: DICKSON, SLAGER, DUFFIE, MUMMERY AND AKHURST 117, 625.

the origin of oligodendrocytes?: PRINGLE AND RICHARDSON 117, 525.

Induction

floor plate induction: PLACZEK, JESSELL AND DODD 117, 205.

Inductive interaction

TGFβ2 in heart development: DICKSON, SLAGER, DUFFIE, MUMMERY AND AKHURST 117, 625.

Ingression

mesoderm morphogenesis in *Ceratophyrs ornata*: PURCELL AND KELLER 117, 307.

Inhibin

activin in mouse preimplantation embryos: ALBANO, GROOME AND SMITH 117, 711.

Inner ear

tail and inner ear defects in *int-2* mutant mice: MANSOUR, GODDARD AND CAPECCHI 117, 13.

int-2

tail and inner ear defects in *int-2* mutant mice: MANSOUR, GODDARD AND CAPECCHI **117**, 13.

Integrir

Drosophila wing development: FRISTROM, WILCOX AND FRISTROM 117, 509.

extracellular matrix and differentiation: ADAMS AND WATT 117, 1183.

integrins in unfertilized mouse oocytes: TARONE, RUSSO, HIRSCH, ODORISIO, ALTRUDA, SILENGO AND SIRACUSA 117, 1369.

Xenopus integrin α subunits: WHITTAKER AND DESIMONE 117, 1239.

Interaction

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

Interactions between homeoproducts

Scr ectopic expression: PELAZ, URQUIA AND MORATA 117, 917.

Intermandibularis muscle

patterning of fast and slow fibres: ROBSON 117, 329.

Intersegmental nerve

axon guidance by *Delta* and *Notch*: GINIGER, JAN AND JAN 117, 431.

Interstitial cells

mesonephric contribution to testis differentiation: BUEHR, GU AND MCLAREN 117, 273.

Invagination

epithelial invagination in sea urchin: LANE, KOEHL, WILT AND KELLER 117, 1049.

Insilateral projection

guidance of retinal axons by chiasm membranes: WIZENMANN, THANOS, BOXBERG AND BONHOEFFER 117, 725.

Isotype

a functionally unique a-tubulin isotype: MATTHEWS, REES AND KAUFMAN 117, 977.

c-kit

role of c-kit in fetal hematopoiesis: OGAWA, NISHIKAWA, YOSHINAGA, HAYASHI, KUNISADA, NAKAO, KINA, SUDO, KODAMA AND NISHIKAWA 117, 1089.

kreisler

gene expression in *kreisler* mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925.

Krox

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

Krox-20

gene expression in kreisler mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925.

lacZ

Hox-1.4 directed expression in transgenic mice: BEHRINGER, CROTTY, TENNYSON, BRINSTER, PALMITER AND WOLGEMUTH 117, 823.

lacz reporter

enhancer regions in the mouse *En-2* locus: LOGAN, KHOO, CADO AND JOYNER 117, 905.

Laminin A

Drosophila wing development: FRISTROM, WILCOX AND FRISTROM 117, 509.

Laser confocal microscopy

control of gap junction assembly in mouse: DE SOUSA, VALDIMARSSON, NICHOLSON AND KIDDER 117, 1355.

Lateral inhibition

dorsal-ventral pattern formation in *Drosophila*: ROTH 117, 1385.

Leech

engrailed homologue expression in leech embryos: LANS, WEDEEN AND WEISBLAT 117, 857.

segmental identity in the mesoderm: GLEIZER AND STENT 117, 177.

Lens

control of lens growth and cell polarity: HYATT AND BEEBE 117, 701.

lethal spotted mouse

chimeras with *ls/ls* transgenic embryos: KAPUR, YOST AND PALMITER 117, 993.

Leukemia inhibitory factor

sensory neuron development regulated by LIF/NGF: MURPHY, REID, BROWN AND BARTLETT 117, 1173.

Limb

allocation of leg and wing imaginal discs: COHEN, SIMCOX AND COHEN 117, 597.

Limb bud

N- gene in the mouse: SAWAI, SHIMONO, WAKAMATSU, PALMES, HANAOKA AND KONDOH 117, 1445.

goosecoid expression in murine organogenesis: GAUNT, BLUM AND DE ROBERTIS 117, 769.

Limb development

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

maintenance of ZPA signaling in vitro: ANDERSON, LANDRY AND MUNEOKA 117, 1421.

Limb regeneration

antibodies to RAR isoforms: HILL, RAGSDALE AND BROCKES 117, 937.

Hox-4.5 and Hox-3.6 expression during newt regeneration: SIMON AND TABIN 117, 1397.

Lithium

dorsalization in Xenopus gastrulae: LETTICE AND SLACK 117, 263.

early specification of zebrafish dorsventral axis: STACHEL, GRUNWALD AND MYERS 117, 1261.

Localized maternal RNA

vegetally localized maternal RNA: MOSQUERA, FORRISTALL, ZHOU AND KING 117, 377.

Macrophage

cell death in the *Drosophila* embryo: ABRAMS, WHITE, FESSLER AND STELLER 117, 29.

Mandible

goosecoid expression in murine organogenesis: GAUNT, BLUM AND DE ROBERTIS 117, 769.

Manduca sexta

gliogenesis in insect ENS: COPENHAVER 117, 59.

Maxillary cirri

Deformed regulates Distal-less: O'HARA, COHEN, COHEN AND MCGINNIS 117, 847.

MEF2-MyoD1

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

Meiosis

a functionally unique a-tubulin isotype: MATTHEWS, REES AND KAUFMAN 117, 977.

Mesoderm

cell cycle during rat gastrulation: MAC AULEY, WERB AND MIRKES 117, 873.

decapentaplegic in visceral mesoderm: HURSH, PADGETT AND GELBART 117, 1211.

hyaluronic acid in the early mouse embryo: BROWN AND PAPAIOANNOU 117, 483.

mesoderm morphogenesis in *Ceratophyrs ornata*: PURCELL AND KELLER **117**, 307.

mesodermal cell interactions in sea urchin embryo: ETTENSOHN AND RUFFINS 117, 1275.

somite pattern regulation: PACKARD, ZHENG AND TURNER 117, 779.

two *Drosophila* FGF-receptor homologues: SHISHIDO, HIGASHIJIMA, EMORI AND SAIGO 117, 751.

Mesoderm formation

activin in mouse preimplantation embryos: ALBANO, GROOME AND SMITH 117, 711.

Mesoderm induction

dorsalization in *Xenopus* gastrulae: LETTICE AND SLACK 117, 263.

Mesonephros

mesonephric contribution to testis differentiation: BUEHR, GU AND MCLAREN 117, 273.

Metamorphosis

wing sensory axons in *Drosophila* mutants: WHITLOCK 117, 1251.

Metaphase arrest

fizzy mutations cause metaphase arrest: DAWSON, ROTH, AKAM AND ARTAVANIS-TSAKONAS 117, 359.

Microtubule

axis establishment and microtubules in *Beroe*: HOULISTON, CARRE, JOHNSTON AND SARDET 117, 75.

MAP2-induced processes: EDSON, WEISSHAAR AND MATUS 117, 689.

Microtubule-associated protein

MAP2-induced processes: EDSON, WEISSHAAR AND MATUS 117, 689.

Midline glia

pointed encodes two ETS-like proteins: KLAMBT 117, 163.

Migration

perpendicular contact guidance on microstructures: NAGATA, KAWANA AND NAKATSUJI 117, 401.

Mitosi

a functionally unique a-tubulin isotype: MATTHEWS, REES AND KAUFMAN 117, 977.

axis establishment and microtubules in *Beroe*: HOULISTON, CARRE, JOHNSTON AND SARDET 117, 75.

fizzy mutations cause metaphase arrest: DAWSON, ROTH, AKAM AND ARTAVANIS-TSAKONAS 117, 359.

Monoclonal antibody

role of c-kit in fetal hematopoiesis: OGAWA, NISHIKAWA, YOSHINAGA, HAYASHI, KUNISADA, NAKAO, KINA, SUDO, KODAMA AND NISHIKAWA 117, 1089.

Morphallaxis

retinoids in morphallaxis of budding tunicates: KAWAMURA, HARA AND FUJIWARA 117, 835.

Morphogen

a gradient of dorsal protein: GOVIND, BRENNAN AND STEWARD 117, 135.

Morphogenetic cell movement

early specification of zebrafish dorsventral axis: STACHEL, GRUNWALD AND MYERS 117, 1261.

Mosaic analysis

mosaic analysis in Drosophila: XU AND RUBIN 117, 1223.

Motoneuron

postnatal motoneuron maturation in rats: CURFS, GRIBNAU AND DEDEREN 117, 535.

Mouse activin

activin in mouse preimplantation embryos: ALBANO, GROOME AND SMITH 117, 711.

Mouse chimera

chimeras with ls/ls transgenic embryos: KAPUR, YOST AND PALMITER 117, 993.

chimeric analysis of T(Brachyury): WILSON, RASHBASS AND BEDDINGTON 117, 1321.

Mouse chromosome

XX-Xy differences before implantation: BURGOYNE 117, 341.

Mouse egg

cingulin expression in embryos: JAVED, FLEMING, HAY AND CITI 117, 1145.

cingulin localisation in embryos: FLEMING, HAY, JAVED AND CITI 117, 1135.

Mouse gap junction

control of gap junction assembly in mouse: DE SOUSA, VALDIMARSSON, NICHOLSON AND KIDDER 117, 1355.

Mouse gastrulation

mouse Cdx-1 expression during gastrulation: MEYER AND GRUSS 117, 191.

Mouse gene

gene expression in *kreisler* mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925. *goosecoid* expression in murine organogenesis: GAUNT,

BLUM AND DE ROBERTIS 117, 769.

murine homologues of seven in absentia: DELLA, SENIOR AND BOWTELL 117, 1333.

N-gene in the mouse: SAWAI, SHIMONO, WAKAMATSU, PALMES, HANAOKA AND KONDOH 117, 1445.

tail and inner ear defects in *int-2* mutant mice: MANSOUR, GODDARD AND CAPECCHI **117**, 13.

Mouse heart

TGFβ2 in heart development: DICKSON, SLAGER, DUFFIE, MUMMERY AND AKHURST 117, 625.

Mouse hemopoiesis

role of c-kit in fetal hematopoiesis: OGAWA, NISHIKAWA, YOSHINAGA, HAYASHI, KUNISADA, NAKAO, KINA, SUDO, KODAMA AND NISHIKAWA 117, 1089.

Mouse hyaluronic acid

in the early embryo: BROWN AND PAPAIOANNOU 117, 483.

Mouse limb

maintenance of ZPA signaling in vitro: ANDERSON, LANDRY AND MUNEOKA 117. 1421.

Mouse muscle

contractile protein gene expression: ONTELL, ONTELL, SOPPER, MALLONGA, LYONS AND BUCKINGHAM 117, 1435.

M-cadherin expression in skeletal muscle: MOORE AND WALSH 117, 1409.

Mouse myogenesis

myoblast diversity and the MyoD family: SMITH, BLOCK, RHODES, KONIECZNY AND MILLER 117, 1125.

Mouse nervous system

cDNAs mark stages of granule cell development: KUHAR, FENG, VIDAN, ROSS, HATTEN AND HEINTZ 117, 97. NCAM in mouse neural tube: BALLY-CUIF, GORIDIS AND SANTONI 117, 543.

sensory neuron development regulated by LIF/NGF: MURPHY, REID, BROWN AND BARTLETT 117, 1173. axial curvature and neurulation: VAN STRAATEN,

HEKKING, CONSTEN AND COPP 117, 1163. regional specification of neural ectoderm: THOMAS AND DZIADEK 117, 253.

Mouse oocyte

integrins in unfertilized mouse oocytes: TARONE, RUSSO, HIRSCH, ODORISIO, ALTRUDA, SILENGO AND SIRACUSA 117, 1369.

Mouse pattern formation

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

Mouse spermatogenesis

transcriptional regulation of *Tcp-10b*: EWULONU, BURATYNSKI AND SCHIMENTI **117**, 89.

Mouse testis

mesonephric contribution to testis differentiation: BUEHR, GU AND MCLAREN 117, 273.

Mouse tooth

inhibition of amelogenin translation: DIEKWISCH, DAVID, BRINGAS, SANTOS AND SLAVKIN 117, 471.

msx 1 and msx 2 during tissue interactions: JOWETT, VAINIO, FERGUSON, SHARPE AND THESLEFF 117, 461.

Mouse transgene

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

enhancer regions in the mouse *En-2* locus: LOGAN, KHOO, CADO AND JOYNER 117, 905.

Hox-1.4 directed expression in transgenic mice: BEHRINGER, CROTTY, TENNYSON, BRINSTER, PALMITER AND WOLGEMUTH 117, 823.

msx I

msx 1 and msx 2 during tissue interactions: JOWETT, VAINIO, FERGUSON, SHARPE AND THESLEFF 117, 461.

msx 2

msx 1 and msx 2 during tissue interactions: JOWETT, VAINIO, FERGUSON, SHARPE AND THESLEFF 117, 461.

Muscle regulatory factor

myoblast diversity and the MyoD family: SMITH, BLOCK, RHODES, KONIECZNY AND MILLER 117, 1125.

N-myc

N- gene in the mouse: SAWAI, SHIMONO, WAKAMATSU, PALMES, HANAOKA AND KONDOH 117, 1445.

Myoblasts

enhancer regions in the mouse *En-2* locus: LOGAN, KHOO, CADO AND JOYNER 117, 905.

myoblast diversity and the MyoD family: SMITH, BLOCK, RHODES, KONIECZNY AND MILLER 117, 1125.

Myogenesis

delayed somitogenesis in quail: COUTINHO, MORRIS, MARKS, BUHR AND IVARIE 117, 563.

I_{Ca} and contraction appearance in muscle: COGNARD, CONSTANTIN, RIVET-BASTIDE, IMBERT, BESSE AND RAYMOND 117, 1153.

M-cadherin expression in skeletal muscle: MOORE AND WALSH 117, 1409.

myoblast diversity and the MyoD family: SMITH, BLOCK, RHODES, KONIECZNY AND MILLER 117, 1125.

TGFβ2 in heart development: DICKSON, SLAGER, DUFFIE, MUMMERY AND AKHURST 117, 625.

Myogenic factor

delayed somitogenesis in quail: COUTINHO, MORRIS, MARKS, BUHR AND IVARIE 117, 563.

Myogenic regulatory factor

contractile protein gene expression: ONTELL, ONTELL, SOPPER, MALLONGA, LYONS AND BUCKINGHAM 117, 1435.

Myosin

contractile protein gene expression: ONTELL, ONTELL, SOPPER, MALLONGA, LYONS AND BUCKINGHAM 117, 1435.

Myosin heavy chain

delayed somitogenesis in quail: COUTINHO, MORRIS, MARKS, BUHR AND IVARIE 117, 563.

Myotome

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

nano

vegetally localized maternal RNA: MOSQUERA, FORRISTALL, ZHOU AND KING 117, 377.

NCAM

NCAM in mouse neural tube: BALLY-CUIF, GORIDIS AND SANTONI 117, 543.

Nerve growth factor

neurotrophin-4 is a neurotrophic factor for trigeminal ganglion: IBANEZ, ERNFORS, TIMMUSK, IP, ARENAS, YANCOPOULOS AND PERSSON 117, 1345.

sensory neuron development regulated by LIF/NGF: MURPHY, REID, BROWN AND BARTLETT 117, 1173.

Nervous system

gliogenesis in insect ENS: COPENHAVER 117, 59.

Nervous system development

cell death in the *Drosophila* embryo: ABRAMS, WHITE, FESSLER AND STELLER 117, 29.

Neural crest

chimeras with ls/ls transgenic embryos: KAPUR, YOST AND PALMITER 117, 993.

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

segmental organization of chick hindbrain: KURATANI AND EICHELE 117, 105.

Xenopus distal-less in forebrain development: PAPALOPULU AND KINTNER 117, 961.

Neural development

optomotor-blind in Drosophila nervous system development: POECK, HOFBAUER AND PFLUGFELDER 117, 1017.

Neural ectoderm

regional specification of neural ectoderm: THOMAS AND DZIADEK 117, 253.

Neural plate

floor plate induction: PLACZEK, JESSELL AND DODD 117, 205.

Neural tube

NCAM in mouse neural tube: BALLY-CUIF, GORIDIS AND SANTONI 117, 543.

Neuroectoderm

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

Neurogenic gene

Delta and Notch in cell interactions: KOOH, FEHON AND MUSKAVITCH 117, 493.

Neuron

MAP2-induced processes: EDSON, WEISSHAAR AND MATUS 117, 689.

Neurotrophin-3

neurotrophin-4 is a neurotrophic factor for trigeminal ganglion: IBANEZ, ERNFORS, TIMMUSK, IP, ARENAS, YANCOPOULOS AND PERSSON 117, 1345.

Neurulation

axial curvature and neurulation: VAN STRAATEN, HEKKING, CONSTEN AND COPP 117, 1163.

Xenopus integrin α subunits: WHITTAKER AND DESIMONE 117, 1239.

Newt

antibodies to RAR isoforms: HILL, RAGSDALE AND BROCKES 117, 937.

Hox-4.5 and Hox-3.6 expression during newt regeneration: SIMON AND TABIN 117, 1397.

Notch

axon guidance by *Delta* and *Notch*: GINIGER, JAN AND JAN 117, 431.

Delta and Notch in cell interactions: KOOH, FEHON AND MUSKAVITCH 117, 493.

role of *Notch* in cell fate decisions: HEITZLER AND SIMPSON **117**, 1113.

Notochord

floor plate induction: PLACZEK, JESSELL AND DODD 117, 205

mesoderm morphogenesis in *Ceratophyrs ornata*: PURCELL AND KELLER **117**, 307.

Pax gene expression in the developing chick spinal cord: GOULDING, LUMSDEN AND GRUSS 117, 1001.

Occipital bone

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

Odontogenesis

msx 1 and msx 2 during tissue interactions: JOWETT, VAINIO, FERGUSON, SHARPE AND THESLEFF 117, 461.

Olfactory epithelium

murine homologues of seven in absentia: DELLA, SENIOR AND BOWTELL 117, 1333.

Oocyte

integrins in unfertilized mouse oocytes: TARONE, RUSSO, HIRSCH, ODORISIO, ALTRUDA, SILENGO AND SIRACUSA 117, 1369.

Oogenesis

vegetally localized maternal RNA: MOSQUERA, FORRISTALL, ZHOU AND KING 117, 377.

Optic chiasm

guidance of retinal axons by chiasm membranes: WIZENMANN, THANOS, BOXBERG AND BONHOEFFER 117, 725.

optomotor-blind

optomotor-blind in Drosophila nervous system development: POECK, HOFBAUER AND PFLUGFELDER 117, 1017.

Organ culture

msx I and msx 2 during tissue interactions: JOWETT, VAINIO, FERGUSON, SHARPE AND THESLEFF 117, 461.

N-gene in the mouse: SAWAI, SHIMONO, WAKAMATSU, PALMES, HANAOKA AND KONDOH 117, 1445.

Organizer

dorsalization in *Xenopus* gastrulae: LETTICE AND SLACK 117, 263.

Organogenesis

N-gene in the mouse: SAWAI, SHIMONO, WAKAMATSU, PALMES, HANAOKA AND KONDOH 117, 1445.

Organotypic culture

ventral spinal cord inhibits DRG outgrowth: FITZGERALD, KWIAT, MIDDLETON AND PINI 117, 1377.

Origin

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

Origin of spatial information

dorsal-ventral pattern formation in *Drosophila*: ROTH 117, 1385.

Orthoptera

Abdominal-B in Schistocera: KELSH, DAWSON AND AKAM 117, 293.

P-elemen

regeneration genes in *Drosophila*: BROOK, OSTAFICHUK, PIORECKY, WILKINSON, HODGETTS AND RUSSELL 117, 1287.

P-element splicing in pole cells: KOBAYASHI, KITAMURA, SASAKI AND OKADA 117, 885.

Pair-rule gene

conservation of *hairy* regulation: LANGELAND AND CARROLL **117**, 585.

repression of *Drosophila* pair-rule genes by *tramtrack*: BROWN AND WU 117, 45.

paired

paired expression and regulation: GUTJAHR, FREI AND NOLL 117, 609.

Paralogue

Hox-4.5 and Hox-3.6 expression during newt regeneration: SIMON AND TABIN 117, 1397.

Parameciun

cortical development in conjugant *Paramecium*: ROMERO AND TORRES 117, 1099.

Parietal bone

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

Patch-clamp

ICa and contraction appearance in muscle: COGNARD, CONSTANTIN, RIVET-BASTIDE, IMBERT, BESSE AND RAYMOND 117, 1153.

patched

regulation of wingless transcription in *Drosophila*: INGHAM AND HIDALGO 117, 283.

Pattern formation

allocation of leg and wing imaginal discs: COHEN, SIMCOX AND COHEN 117, 597.

axial expression of Cnox-2 in hydra: SHENK, BODE AND STEELE 117, 657.

cut expression in Drosophila: BLOCHLINGER, JAN AND JAN 117, 441.

dorsal-ventral pattern formation in *Drosophila*: ROTH 117, 1385.

gnom in Arabidopsis embryogenesis: MAYER, BUTTNER AND JURGENS 117, 149.

maintenance of ZPA signaling in vitro: ANDERSON, LANDRY AND MUNEOKA 117, 1421.

mesoderm morphogenesis in *Ceratophyrs ornata*: PURCELL AND KELLER 117, 307.

Pax gene expression in the developing chick spinal cord: GOULDING, LUMSDEN AND GRUSS 117, 1001.

somite pattern regulation: PACKARD, ZHENG AND TURNER 117, 779.

wingless regulates wing formation: WILLIAMS, PADDOCK AND CARROLL 117, 571.

Pattern regulation

dorsal-ventral pattern formation in *Drosophila*: ROTH **117**, 1385.

Pax genes

Pax gene expression in the developing chick spinal cord: GOULDING, LUMSDEN AND GRUSS 117, 1001.

PDGF receptor

the origin of oligodendrocytes?: PRINGLE AND RICHARDSON 117, 525.

Perimplantation embryo

cingulin localisation in embryos: FLEMING, HAY, JAVED AND CITI 117, 1135.

Peripheral nervous system

axon guidance by *Delta* and *Notch*: GINIGER, JAN AND JAN 117, 431.

Peritubular myoid cells

mesonephric contribution to testis differentiation: BUEHR, GU AND MCLAREN 117, 273.

Perpendicular contact guidance

perpendicular contact guidance on microstructures: NAGATA, KAWANA AND NAKATSUJI 117, 401.

Piebaldism

chimeras with ls/ls transgenic embryos: KAPUR, YOST AND PALMITER 117, 993.

Planar induction

Xenopus distal-less in forebrain development: PAPALOPULU AND KINTNER 117, 961.

PNS

gliogenesis in the adult fly PNS: GIANGRANDE, MURRAY AND PALKA 117, 895.

pointed

pointed encodes two ETS-like proteins: KLAMBT 117, 163.

Polarity

a gradient of dorsal protein: GOVIND, BRENNAN AND STEWARD 117, 135.

gnom in Arabidopsis embryogenesis: MAYER, BUTTNER AND JURGENS 117, 149. Pole cells

P-element splicing in pole cells: KOBAYASHI, KITAMURA, SASAKI AND OKADA 117, 885.

Polyandrocarpa

retinoids in morphallaxis of budding tunicates: KAWAMURA, HARA AND FUJIWARA 117, 835.

Polycomb group

Psc is a chromosomal protein: MARTIN 117, 641.

Posterior neuropore

axial curvature and neurulation: VAN STRAATEN, HEKKING, CONSTEN AND COPP 117, 1163.

Posterior Sex Combs

Psc is a chromosomal protein: MARTIN 117, 641.

Postnatal development

postnatal motoneuron maturation in rats: CURFS, GRIBNAU AND DEDEREN 117, 535.

POU-box

regional repression of a *Drosophila* POU box gene: AFFOLTER, WALLDORF, KLOTER, SCHIER AND GEHRING 117, 1199.

Preimplantation embryo

activin in mouse preimplantation embryos: ALBANO, GROOME AND SMITH 117, 711.

cingulin expression in embryos: JAVED, FLEMING, HAY AND CITI 117, 1145.

XX-Xy differences before implantation: BURGOYNE 117, 341.

Preimplantation Y chromosome effect

XX-Xy differences before implantation: BURGOYNE 117, 341.

Prespore differentiation

expression of Dp87 gene in *Dictyostelium*: OZAKI, NAKAO, ORII, MORIO, TAKEUCHI AND TASAKA 117, 1299.

Primary afferent

ventral spinal cord inhibits DRG outgrowth: FITZGERALD, KWIAT, MIDDLETON AND PINI 117, 1377.

Primary mesenchyme cell

mesodermal cell interactions in sea urchin embryo: ETTENSOHN AND RUFFINS 117, 1275.

Primary myotube

contractile protein gene expression: ONTELL, ONTELL, SOPPER, MALLONGA, LYONS AND BUCKINGHAM 117, 1435.

Primary pair-rule gene

paired expression and regulation: GUTJAHR, FREI AND NOLL 117, 609.

Primitive streak

cell cycle during rat gastrulation: MAC AULEY, WERB AND MIRKES 117, 873.

mouse *Cdx-1* expression during gastrulation: MEYER AND GRUSS 117, 191.

Process orientation

perpendicular contact guidance on microstructures: NAGATA, KAWANA AND NAKATSUJI 117, 401.

Programmed cell death

cell death in the *Drosophila* embryo: ABRAMS, WHITE, FESSLER AND STELLER 117, 29.

Proliferation

Drosophila cdc2 mutants: STERN, RIED, CLEGG, GRIGLIATTI AND LEHNER 117, 219.

Protein trafficking

control of gap junction assembly in mouse: DE SOUSA, VALDIMARSSON, NICHOLSON AND KIDDER 117, 1355.

Proteoglycan

epithelial invagination in sea urchin: LANE, KOEHL, WILT AND KELLER 117, 1049.

extracellular matrix and differentiation: ADAMS AND WATT 117, 1183.

Proto-oncogene

tail and inner ear defects in int-2 mutant mice: MANSOUR, GODDARD AND CAPECCHI 117, 13.

PS integrin

Drosophila wing development: FRISTROM, WILCOX AND FRISTROM 117, 509.

qmfl

delayed somitogenesis in quail: COUTINHO, MORRIS, MARKS, BUHR AND IVARIE 117, 563.

Ouail

delayed somitogenesis in quail: COUTINHO, MORRIS, MARKS, BUHR AND IVARIE 117, 563.

somite pattern regulation: PACKARD, ZHENG AND TURNER 117, 779.

Quail-chick chimera

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

segmental organization of chick hindbrain: KURATANI AND EICHELE 117, 105.

Ras gene

Drosophila Ras2 and Rop genes: SALZBERG, COHEN, HALACHMI, KIMCHIE AND LEV 117, 1309.

Rat

cell cycle during rat gastrulation: MAC AULEY, WERB AND MIRKES 117, 873.

floor plate induction: PLACZEK, JESSELL AND DODD 117, 205.

guidance of retinal axons by chiasm membranes: WIZENMANN, THANOS, BOXBERG AND BONHOEFFER 117, 725.

ICa and contraction appearance in muscle: COGNARD, CONSTANTIN, RIVET-BASTIDE, IMBERT, BESSE AND RAYMOND 117, 1153.

postnatal motoneuron maturation in rats: CURFS, GRIBNAU AND DEDEREN 117, 535.

restricted cortical cell lineages: GROVE, WILLIAMS, LI, HAJIHOSSEINI AND FRIEDRICH 117, 553.

the origin of oligodendrocytes?: PRINGLE AND RICHARDSON 117, 525.

ventral spinal cord inhibits DRG outgrowth: FITZGERALD, KWIAT, MIDDLETON AND PINI 117, 1377.

Regeneration

regeneration genes in *Drosophila*: BROOK, OSTAFICHUK, PIORECKY, WILKINSON, HODGETTS AND RUSSELL 117, 1287.

Regional specification

NCAM in mouse neural tube: BALLY-CUIF, GORIDIS AND SANTONI 117, 543.

Regulation

a functionally unique a-tubulin isotype: MATTHEWS, REES AND KAUFMAN 117, 977.

Regulatory gene

wingless regulates wing formation: WILLIAMS, PADDOCK AND CARROLL 117, 571.

Repression

regional repression of a *Drosophila* POU box gene: AFFOLTER, WALLDORF, KLOTER, SCHIER AND GEHRING 117, 1199.

Repressor

repression of *Drosophila* pair-rule genes by *tramtrack*: BROWN AND WU 117, 45.

Retina

guidance of retinal axons by chiasm membranes: WIZENMANN, THANOS, BOXBERG AND BONHOEFFER 117, 725.

Retinoic acid

antibodies to RAR isoforms: HILL, RAGSDALE AND BROCKES 117, 937.

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

Hox-4.5 and Hox-3.6 expression during newt regeneration: SIMON AND TABIN 117, 1397.

retinoids in morphallaxis of budding tunicates: KAWAMURA, HARA AND FUJIWARA 117, 835.

Retinoic acid receptor

antibodies to RAR isoforms: HILL, RAGSDALE AND BROCKES 117, 937.

Retinol

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

Retroviral vector

restricted cortical cell lineages: GROVE, WILLIAMS, LI, HAJIHOSSEINI AND FRIEDRICH 117, 553.

Rhombomere

gene expression in *kreisler* mouse embryos: FROHMAN, MARTIN, CORDES, HALAMEK AND BARSH 117, 925. segmental organization of chick hindbrain: KURATANI AND EICHELE 117, 105.

mRNA

Psc is a chromosomal protein: MARTIN 117, 641.

mRNA translation

control of gap junction assembly in mouse: DE SOUSA, VALDIMARSSON, NICHOLSON AND KIDDER 117, 1355.

Rodent

cell cycle during rat gastrulation: MAC AULEY, WERB AND MIRKES 117, 873.

RT-PCR

control of gap junction assembly in mouse: DE SOUSA, VALDIMARSSON, NICHOLSON AND KIDDER 117, 1355.

scalloped

wingless regulates wing formation: WILLIAMS, PADDOCK AND CARROLL 117, 571.

scute

a germ cell-specific X:A ratio in *Drosophila*: STEINMANN-ZWICKY 117, 763.

Sea urchin

epithelial invagination in sea urchin: LANE, KOEHL, WILT AND KELLER 117, 1049.

mesodermal cell interactions in sea urchin embryo: ETTENSOHN AND RUFFINS 117, 1275.

Secondary mesenchyme cell

mesodermal cell interactions in sea urchin embryo: ETTENSOHN AND RUFFINS 117, 1275.

Secretion

epithelial invagination in sea urchin: LANE, KOEHL, WILT AND KELLER 117, 1049.

Segment identity

Abdominal-B in Schistocera: KELSH, DAWSON AND AKAM 117, 293.

autoregulation by *Ultrabithorax*: IRVINE, BOTAS, JHA, MANN AND HOGNESS **117**, 387.

Segment polarity gene

regulation of wingless transcription in Drosophila: INGHAM AND HIDALGO 117, 283. Segmental plate

somite pattern regulation: PACKARD, ZHENG AND TURNER 117, 779.

Segmentation

conservation of *hairy* regulation: LANGELAND AND CARROLL 117, 585.

engrailed homologue expression in leech embryos: LANS, WEDEEN AND WEISBLAT 117, 857.

regional specification of neural ectoderm: THOMAS AND DZIADEK 117, 253.

repression of *Drosophila* pair-rule genes by *tramtrack*: BROWN AND WU 117, 45.

segmental identity in the mesoderm: GLEIZER AND STENT 117, 177.

somite pattern regulation: PACKARD, ZHENG AND TURNER 117, 779.

Sense organ

cut expression in Drosophila: BLOCHLINGER, JAN AND JAN 117, 441.

Xenopus distal-less in forebrain development: PAPALOPULU AND KINTNER 117, 961.

Sensory neuron

sensory neuron development regulated by LIF/NGF: MURPHY, REID, BROWN AND BARTLETT 117, 1173. wing sensory axons in *Drosophila* mutants: WHITLOCK 117, 1251

Sequence evolution

conservation of hairy regulation: LANGELAND AND CARROLL 117, 585.

Sex determination

a germ cell-specific X:A ratio in *Drosophila*: STEINMANN-ZWICKY 117, 763.

Drosophila AS-C feminizing activities: PARKHURST, LIPSHITZ AND ISH-HOROWICZ 117, 737.

Sex-lethal

a germ cell-specific X:A ratio in *Drosophila*: STEINMANN-ZWICKY 117, 763.

Drosophila AS-C feminizing activities: PARKHURST, LIPSHITZ AND ISH-HOROWICZ 117, 737.

Short-germ insect

Abdominal-B in Schistocera: KELSH, DAWSON AND AKAM 117, 293.

Signal transduction

a gradient of dorsal protein: GOVIND, BRENNAN AND STEWARD 117, 135.

extracellular matrix and differentiation: ADAMS AND WATT 117, 1183.

sisterless-b

a germ cell-specific X:A ratio in *Drosophila*: STEINMANN-ZWICKY **100** Skeletogenesis

mesodermal cell interactions in sea urchin embryo: ETTENSOHN AND RUFFINS 117, 1275.

Somite

delayed somitogenesis in quail: COUTINHO, MORRIS, MARKS, BUHR AND IVARIE 117, 563.

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

myoblast diversity and the MyoD family: SMITH, BLOCK, RHODES, KONIECZNY AND MILLER 117, 1125. somite pattern regulation: PACKARD, ZHENG AND

TURNER 117, 779.

Spermatogenesis

transcriptional regulation of *Tcp-10b*: EWULONU, BURATYNSKI AND SCHIMENTI **117**, 89.

Sphenoid bone

embryogeny of skull in vertebrates: COULY, COLTEY AND LE DOUARIN 117, 409.

Spinal cord

Pax gene expression in the developing chick spinal cord: GOULDING, LUMSDEN AND GRUSS 117, 1001.

postnatal motoneuron maturation in rats: CURFS, GRIBNAU AND DEDEREN 117, 535.

ventral spinal cord inhibits DRG outgrowth: FITZGERALD, KWIAT, MIDDLETON AND PINI 117, 1377.

Spindle function

a functionally unique a-tubulin isotype: MATTHEWS, REES AND KAUFMAN 117, 977.

Splicing

P-element splicing in pole cells: KOBAYASHI, KITAMURA, SASAKI AND OKADA 117, 885.

Stage-specific cDNA

cDNAs mark stages of granule cell development: KUHAR, FENG, VIDAN, ROSS, HATTEN AND HEINTZ 117, 97.

stee

role of c-kit in fetal hematopoiesis: OGAWA, NISHIKAWA, YOSHINAGA, HAYASHI, KUNISADA, NAKAO, KINA, SUDO, KODAMA AND NISHIKAWA 117, 1089.

Subplate neurons

subplate neurons and cortical targeting: GHOSH AND SHATZ 117, 1031.

Suspension culture

early upregulation of type VI collagen: QUARTO, DOZIN, BONALDO, CANCEDDA AND COLOMBATTI 117, 245.

Tail

tail and inner ear defects in int-2 mutant mice: MANSOUR, GODDARD AND CAPECCHI 117, 13.

Tailbud

chimeric analysis of *T(Brachyury)*: WILSON, RASHBASS AND BEDDINGTON 117, 1321.

Target selection

subplate neurons and cortical targeting: GHOSH AND SHATZ 117, 1031.

Tenascin

tenascin and thrombospondin 2 mRNA: TUCKER 117, 347.

Teratogen

CRBP I/CRABP I in the mouse embryo: GUSTAFSON, DENCKER AND ERIKSSON 117, 451.

Teratogenesis

early specification of zebrafish dorsventral axis: STACHEL, GRUNWALD AND MYERS 117, 1261.

Testis cords

mesonephric contribution to testis differentiation: BUEHR, GU AND MCLAREN 117, 273.

TGFB

allocation of leg and wing imaginal discs: COHEN, SIMCOX AND COHEN 117, 597.

in heart development: DICKSON, SLAGER, DUFFIE, MUMMERY AND AKHURST 117, 625.

TGF-B superfamily

decapentaplegic in visceral mesoderm: HURSH, PADGETT AND GELBART 117, 1211.

TGF-β-related protein

decapentaplegic gradient in Drosophila: WHARTON, RAY AND GELBART 117, 807.

Thrombospondin

tenascin and thrombospondin 2 mRNA: TUCKER 117, 347.

Tight junction

cingulin expression in embryos: JAVED, FLEMING, HAY AND CITI 117, 1145. cingulin localisation in embryos: FLEMING, HAY, JAVED AND CITI 117, 1135.

Tongue

goosecoid expression in murine organogenesis: GAUNT, BLUM AND DE ROBERTIS 117, 769.

Tooth

inhibition of amelogenin translation: DIEKWISCH, DAVID, BRINGAS, SANTOS AND SLAVKIN 117, 471.

tramtrack

repression of *Drosophila* pair-rule genes by *tramtrack*: BROWN AND WU 117, 45.

Trans-regulatory factor

homeotic protein expression in *trithorax* mutants: BREEN AND HARTE 117, 119.

Transcriptional regulation

enhancer regions in the mouse *En-2* locus: LOGAN, KHOO, CADO AND JOYNER 117, 905.

Transfection

MAP2-induced processes: EDSON, WEISSHAAR AND MATUS 117, 689.

Transfilter induction

dorsalization in *Xenopus* gastrulae: LETTICE AND SLACK 117, 263.

Transgenic mouse

desmin in transgenic mice: LI, MARCHAND, HUMBERT, BABINET AND PAULIN 117, 947.

enhancer regions in the mouse *En-2* locus: LOGAN, KHOO, CADO AND JOYNER **117**, 905.

transcriptional regulation of *Tcp-10b*: EWULONU, BURATYNSKI AND SCHIMENTI 117, 89.

Transmembrane signalling

lighting the fuse at fertilization: WHITAKER AND SWANN 117, 1.

Transplantation

segmental identity in the mesoderm: GLEIZER AND STENT 117, 177.

segmental organization of chick hindbrain: KURATANI AND EICHELE 117, 105.

Transposon

P-element splicing in pole cells: KOBAYASHI, KITAMURA, SASAKI AND OKADA 117, 885.

Tribolium castaneum

a beetle *abdominal-A* homolog: STUART, BROWN, BEEMAN AND DENELL **117**, 233.

Trigeminal ganglion

neurotrophin-4 is a neurotrophic factor for trigeminal ganglion: IBANEZ, ERNFORS, TIMMUSK, IP, ARENAS, YANCOPOULOS AND PERSSON 117, 1345.

trithorax

homeotic protein expression in *trithorax* mutants: BREEN AND HARTE 117, 119.

Trophectoderm

cingulin expression in embryos: JAVED, FLEMING, HAY AND CITI 117, 1145.

Tubulin

a functionally unique a-tubulin isotype: MATTHEWS, REES AND KAUFMAN 117, 977.

Tunicate

retinoids in morphallaxis of budding tunicates: KAWAMURA, HARA AND FUJIWARA 117, 835.

Tyrosinase kinase

two *Drosophila* FGF-receptor homologues: SHISHIDO, HIGASHIJIMA, EMORI AND SAIGO 117, 751.

Tyrosine kinase signal transduction

murine homologues of seven in absentia: DELLA, SENIOR AND BOWTELL 117, 1333.

t complex

transcriptional regulation of *Tcp-10b*: EWULONU, BURATYNSKI AND SCHIMENTI 117, 89.

T(Brachyury)

chimeric analysis of T(Brachyury): WILSON, RASHBASS AND BEDDINGTON 117, 1321.

Ultrabithorax

decapentaplegic in visceral mesoderm: HURSH, PADGETT AND GELBART 117, 1211.

Vesicle trafficking

Drosophila Ras2 and Rop genes: SALZBERG, COHEN, HALACHMI, KIMCHIE AND LEV 117, 1309.

vestigial

wingless regulates wing formation: WILLIAMS, PADDOCK AND CARROLL 117, 571.

Visceral mesoderm

decapentaplegic in visceral mesoderm: HURSH, PADGETT AND GELBART 117, 1211.

Vital dye

cell death in the *Drosophila* embryo: ABRAMS, WHITE, FESSLER AND STELLER 117, 29.

Wing

Drosophila wing development: FRISTROM, WILCOX AND FRISTROM 117, 509.

gliogenesis in the adult fly PNS: GIANGRANDE, MURRAY AND PALKA 117, 895.

Wing disc

wingless regulates wing formation: WILLIAMS, PADDOCK AND CARROLL 117, 571.

wingless

allocation of leg and wing imaginal discs: COHEN, SIMCOX AND COHEN 117, 597.

regulation of wingless transcription in Drosophila: INGHAM AND HIDALGO 117, 283.

ubiquitous expression of wingless: SAMPEDRO, JOHNSTON AND LAWRENCE 117, 677.

Xenopus RNA

vegetally localized maternal RNA: MOSQUERA, FORRISTALL, ZHOU AND KING 117, 377.

Xenopus gastrulation

dorsalization in *Xenopus* gastrulae: LETTICE AND SLACK 117, 263.

Xenopus integrin

Xenopus integrin α subunits: WHITTAKER AND DESIMONE 117, 1239.

Xenopus neurogenesis

Xenopus distal-less in forebrain development: PAPALOPULU AND KINTNER 117, 961.

XX-Xy differences

XX-Xy differences before implantation: BURGOYNE 117, 341.

Yolk polypeptide

Drosophila ovarian follicles: GIORGI, LUCCHESI, MORELLI AND BOWNES 117, 319.

Zebrafish

early specification of zebrafish dorsventral axis: STACHEL, GRUNWALD AND MYERS 117, 1261.

Zinc finger

murine homologues of seven in absentia: DELLA, SENIOR AND BOWTELL 117, 1333.

vegetally localized maternal RNA: MOSQUERA, FORRISTALL, ZHOU AND KING 117, 377.

ZO-1

cingulin localisation in embryos: FLEMING, HAY, JAVED AND CITI 117, 1135.